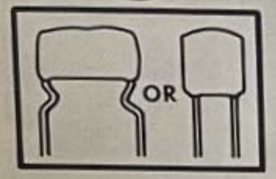
ILLUSTRATION BOOKLET

595-3824-06

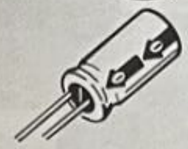
CROSSHATCH GENERATOR CIRCUIT BOARD
PARTS PICTORIAL

A1

A2

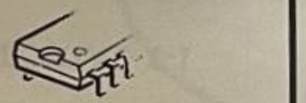


A3



B1

B2

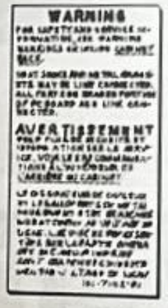


ALWAYS IDENTIFY AN IC BY THE PART NUMBER OR THE TYPE NUMBER
NOTE: THE STYLE MAY BE SLIGHTLY DIFFERENT THAN SHOWN.

C1

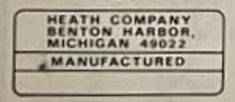
C2

C3

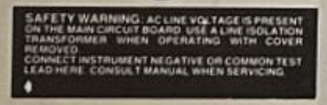


C4

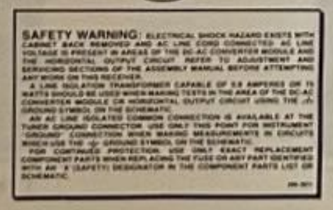
C5



C6


SAFETY WARNING: AC LINE VOLTAGE IS PRESENT ON THE MAIN CIRCUIT BOARD. USE A LINE ISOLATION TRANSFORMER WHEN OPERATING WITH COVER REMOVED.
CONNECT INSTRUMENT NEGATIVE OR COMMON TEST LEAD HERE. CONSULT MANUAL WHEN SERVICING.

C7

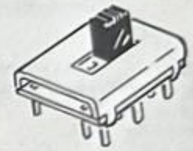


C8

C9

D1

D2



D3

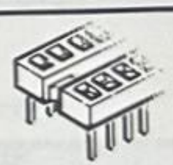
D4

D5

D6

D7

D8



ALWAYS IDENTIFY AN I.C SOCKET BY COUNTING ITS PINS.
NOTE: THE STYLE MAY BE SLIGHTLY DIFFERENT THAN SHOWN.

E1

E2

E3

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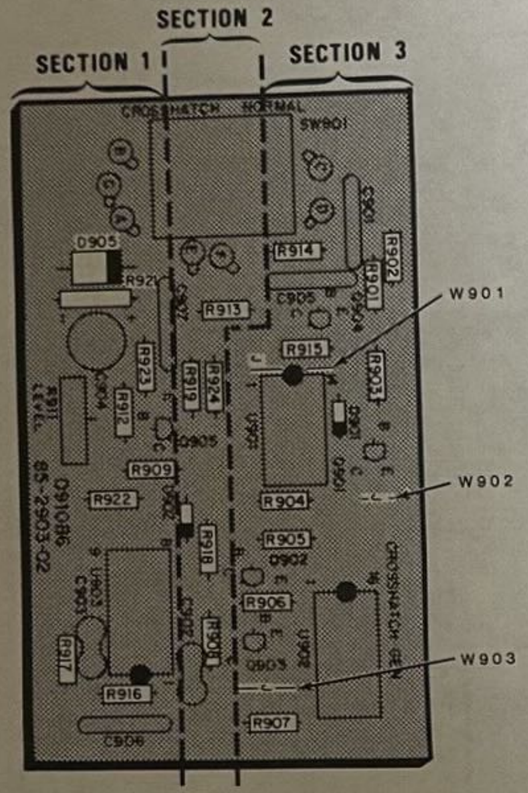
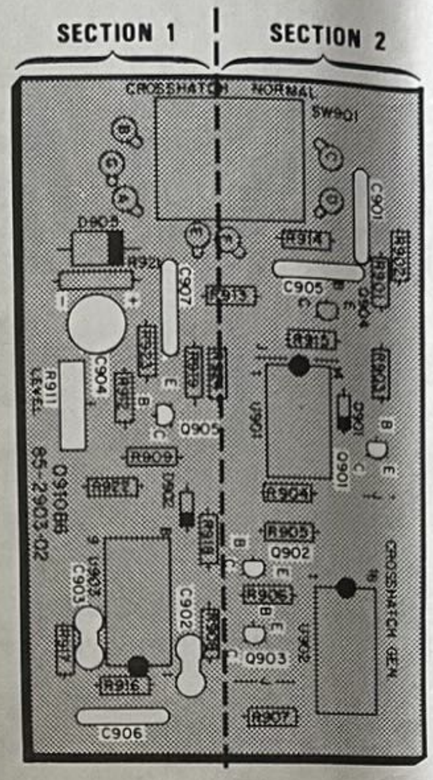
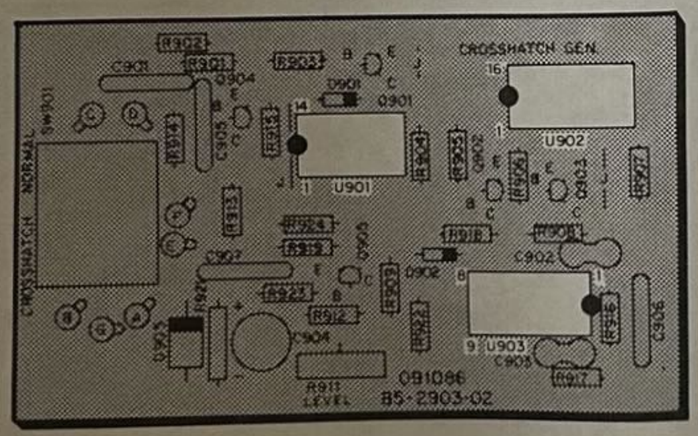


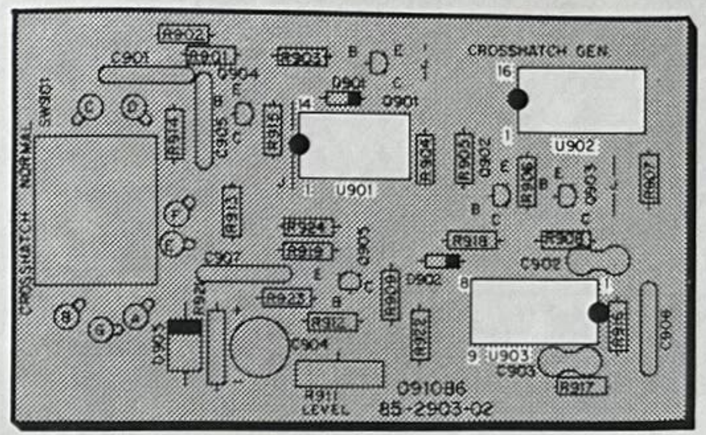
PICTORIAL 1-1



PICTORIAL 1-3



PICTORIAL 1-2

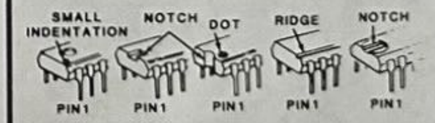


PICTORIAL 1-4

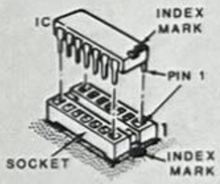
The pins on the IC's may be bent out at an angle, so they do not line up with the holes in the IC socket. DO NOT try to install an IC without first bending the pins as described below. To do so may damage the IC pins or the socket, causing intermittent contact.

Before you install an IC, lay it down on its side as shown below and very carefully roll it toward the pins to bend the lower pins into line. Then turn the IC over and bend the pins on the other side in the same manner.

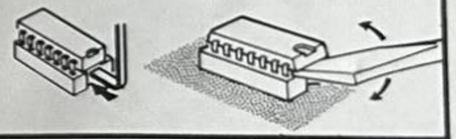
Compare the IC to the drawing shown below. Then determine which end of the IC is the pin 1 end.



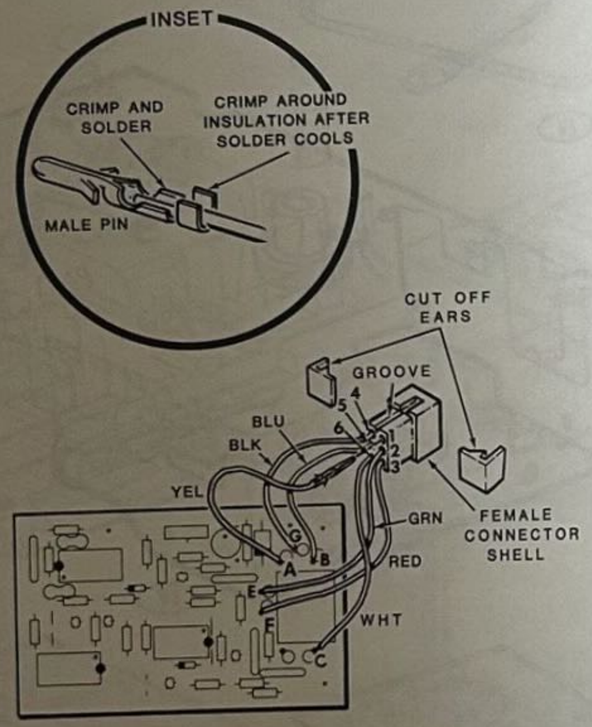
Position the pin 1 end of the IC over the index mark on the circuit board. Then start the pins into the socket. Make sure that **all** of the pins are started; then push the IC down firmly. NOTE: An IC pin can become bent under the IC and it will appear as though it is correctly installed in the socket.



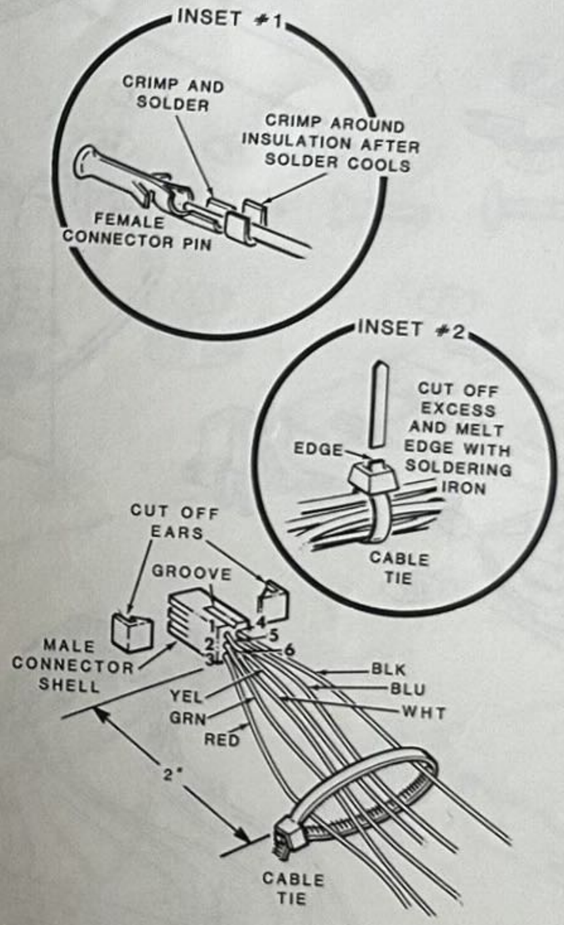
If it is ever necessary to remove an IC from its socket, use an IC puller (if one was supplied with your kit) or a small-bladed screwdriver as shown. Push the end of the IC puller or screwdriver blade between the IC and the socket and carefully lift the IC free. If any IC pins become bent, straighten them carefully.



Detail 1-4A



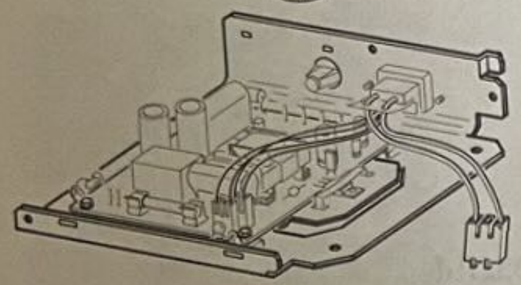
PICTORIAL 1-5



PICTORIAL 1-6

CABINET PARTS PICTORIAL

A1



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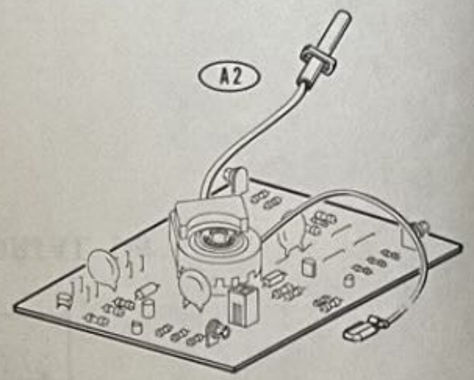
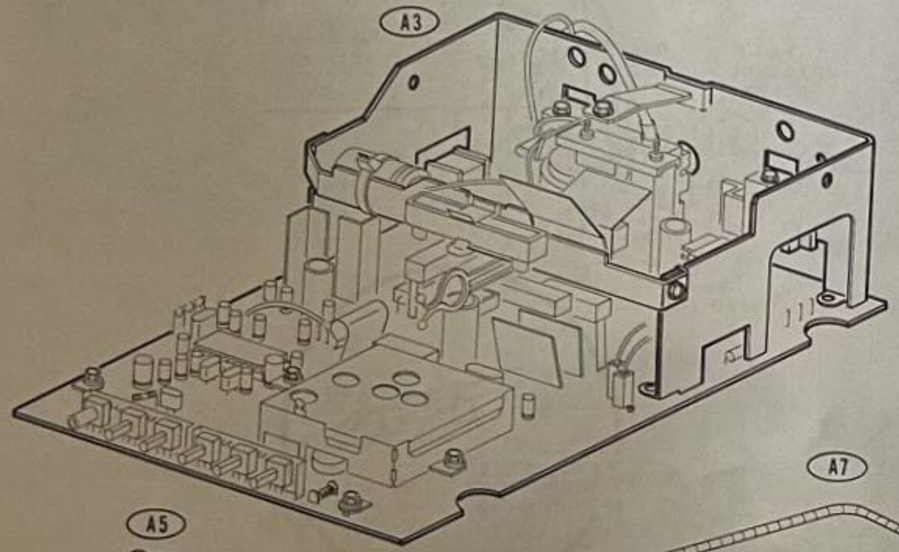
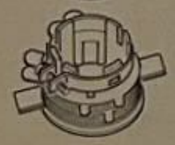


A3



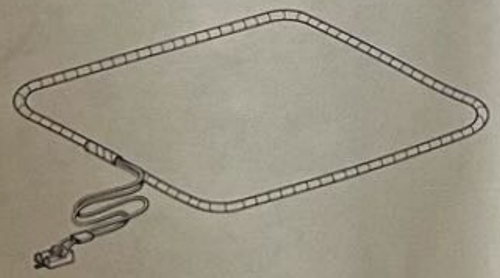
A4

A5



A6

A7



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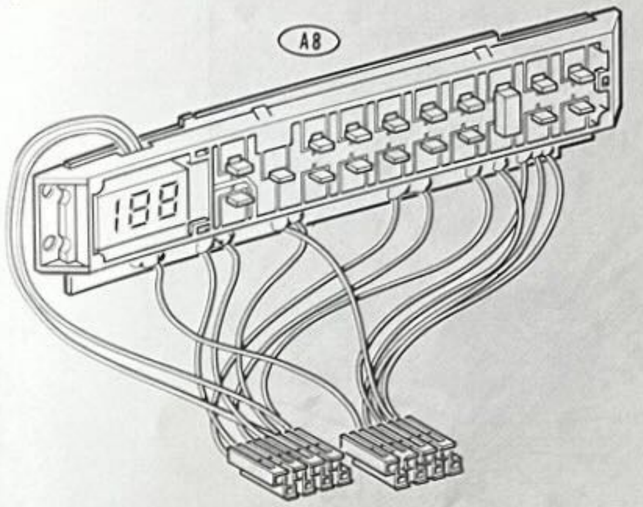
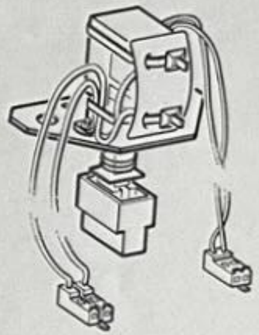


A9



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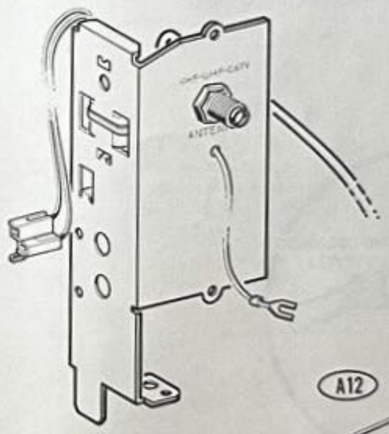
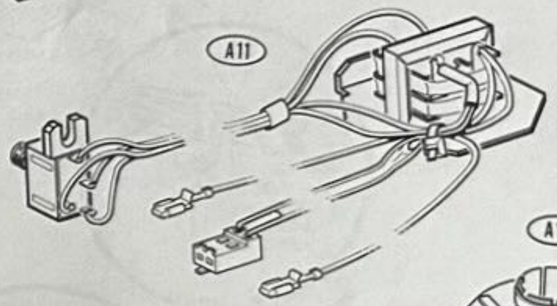


A11



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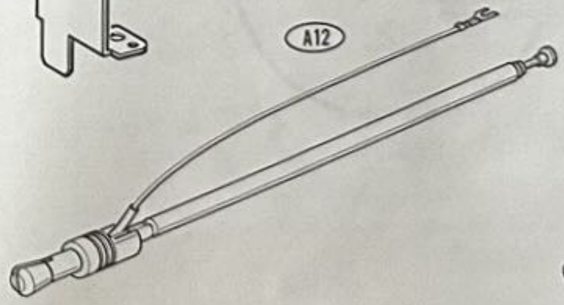

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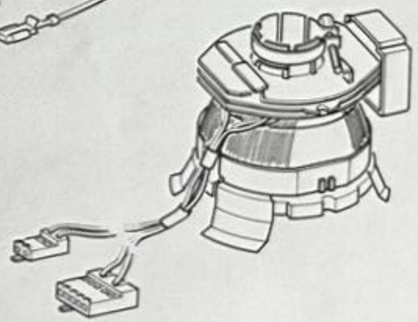
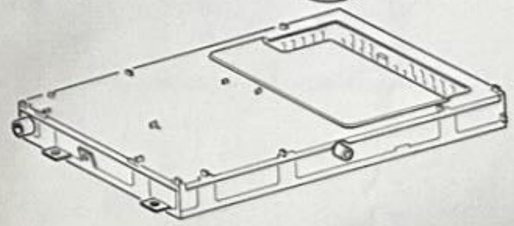
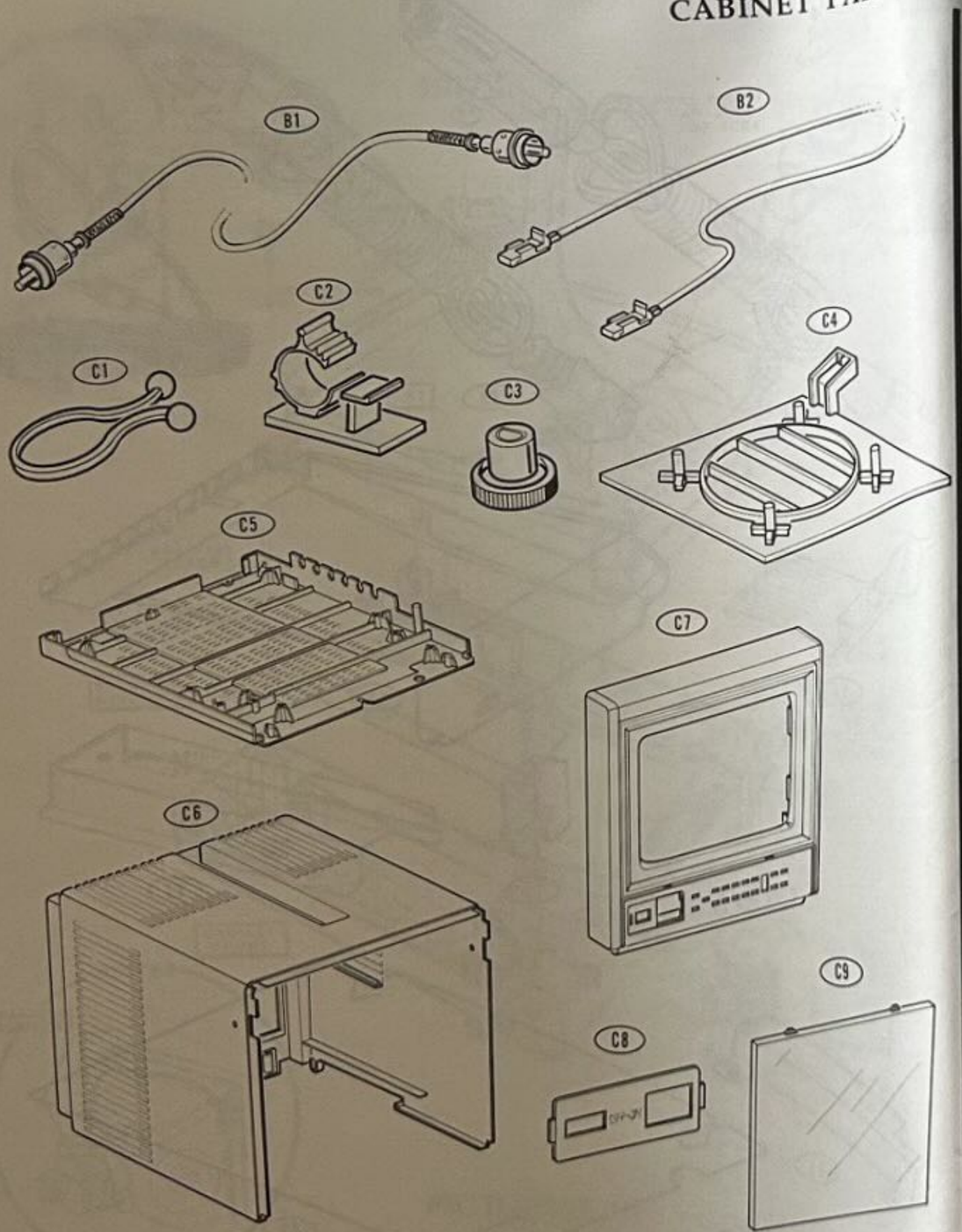
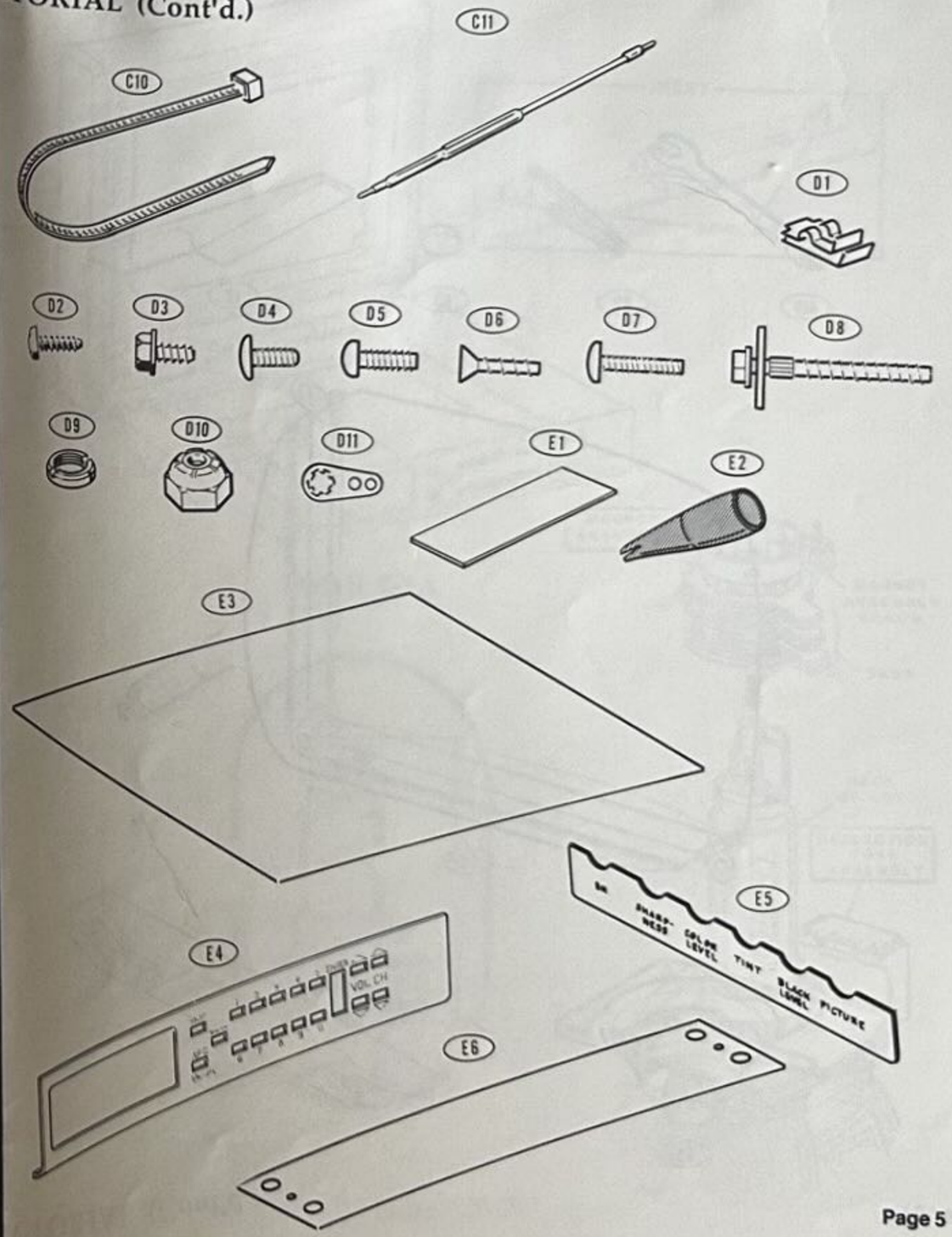


A14

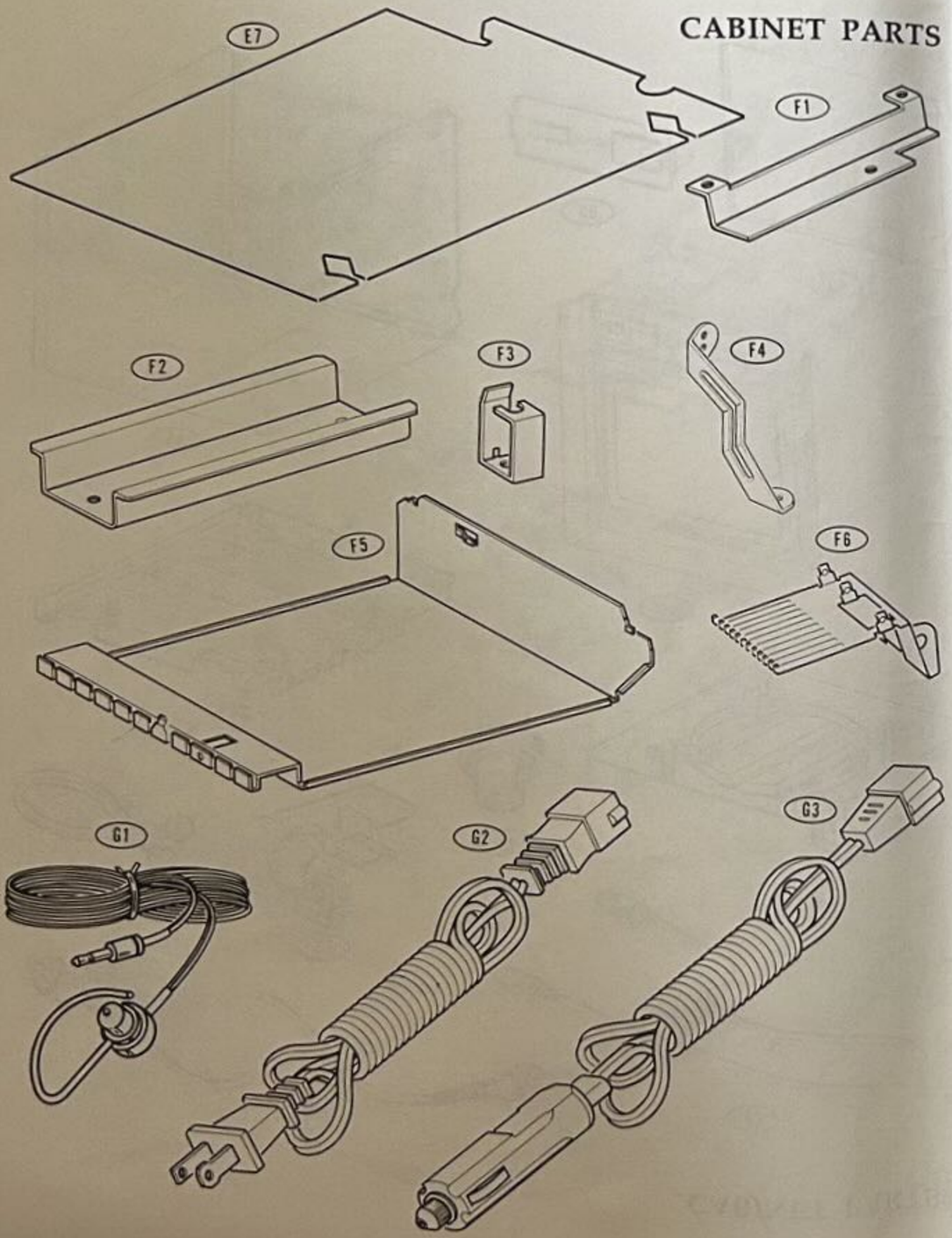


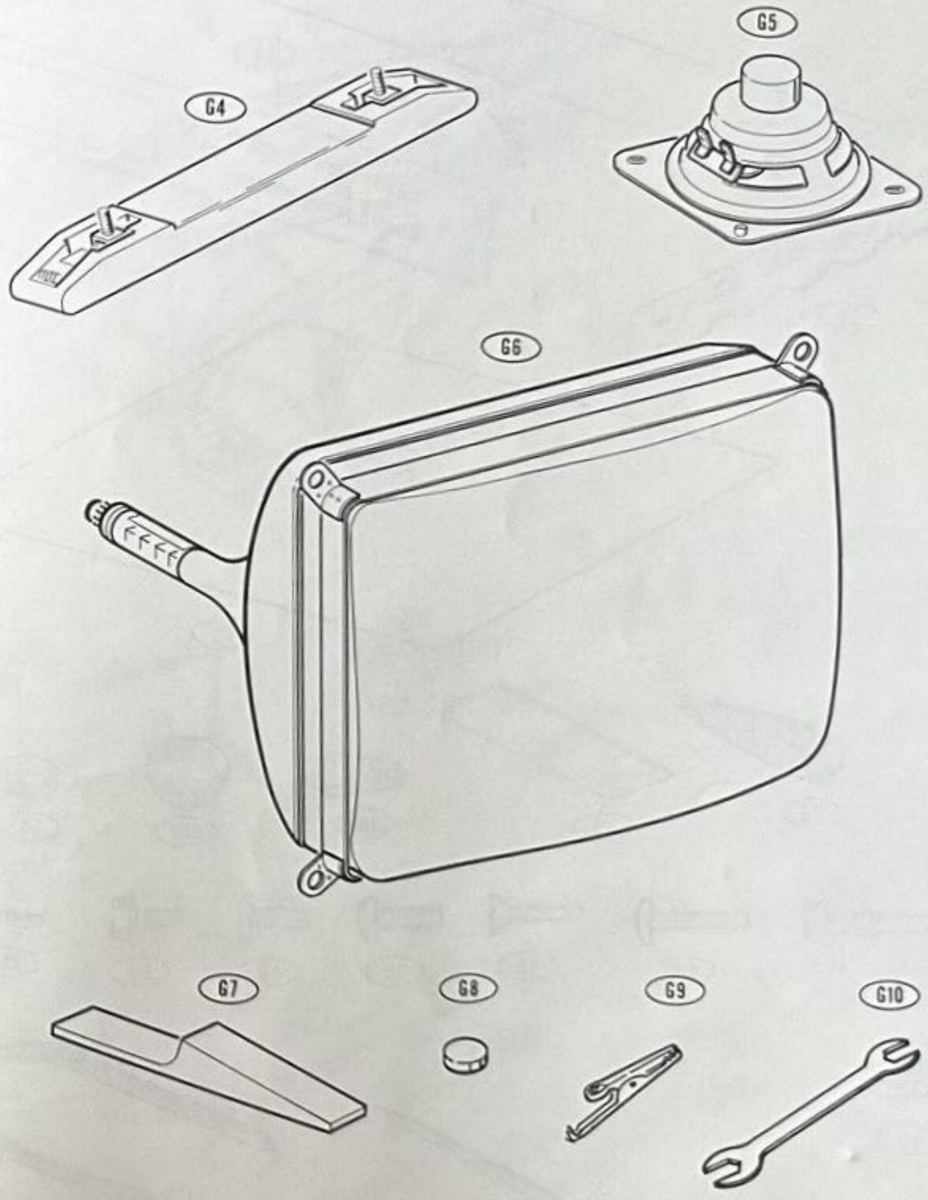
CABINET PARTS PICTORIAL (Cont'd.)

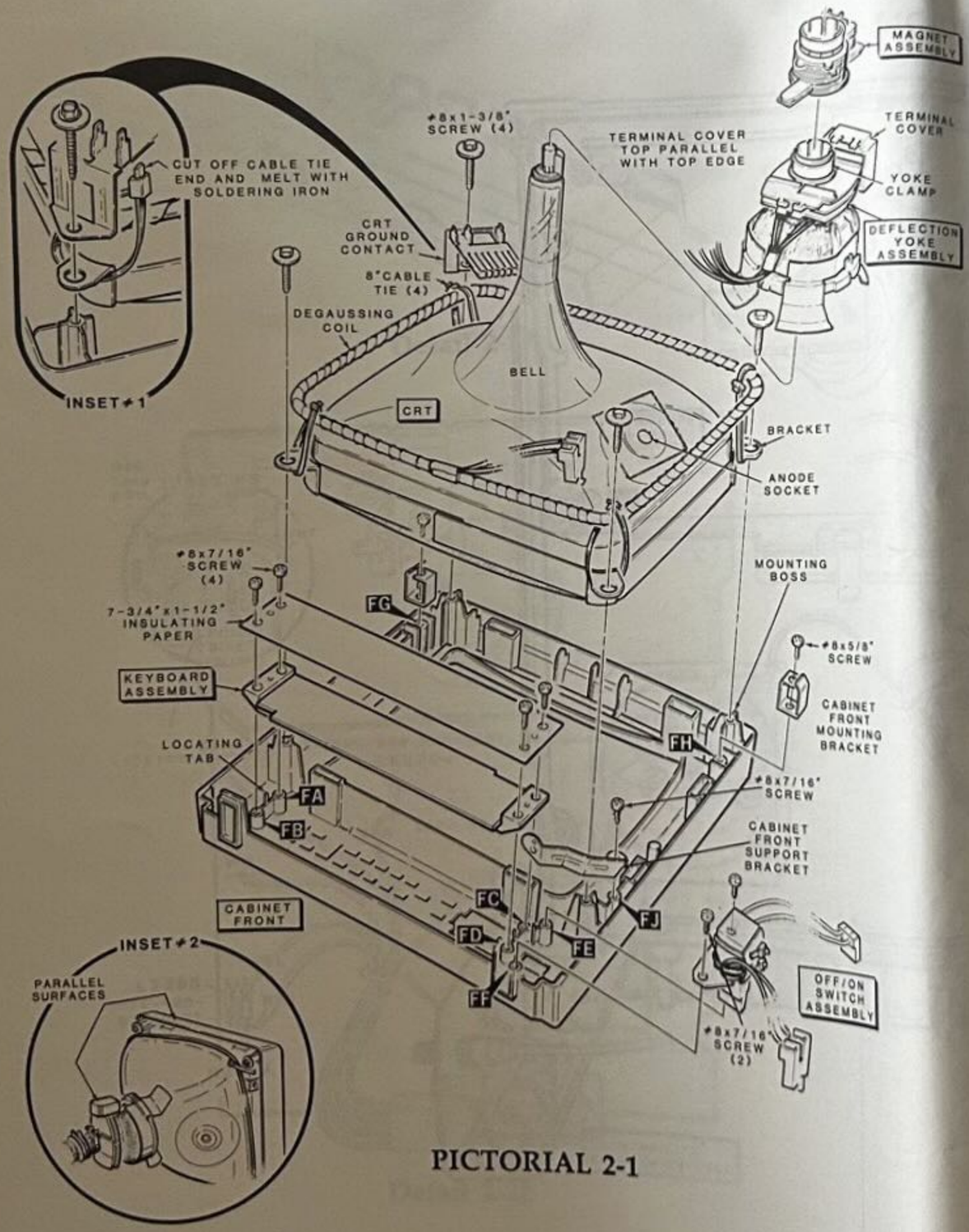




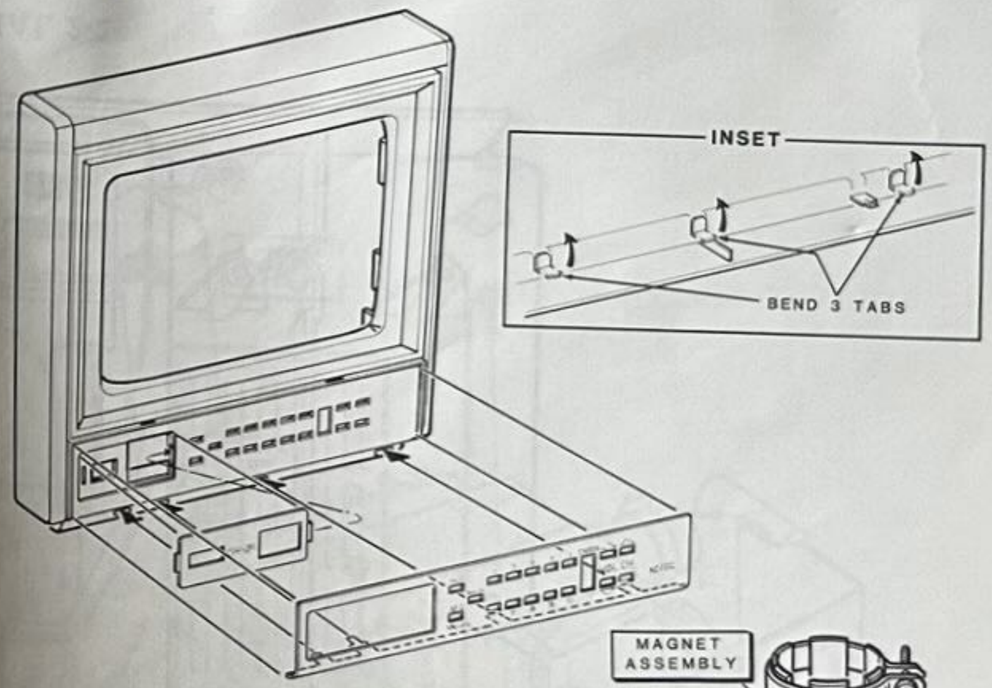
CABINET PARTS PICTORIAL (Cont'd.)



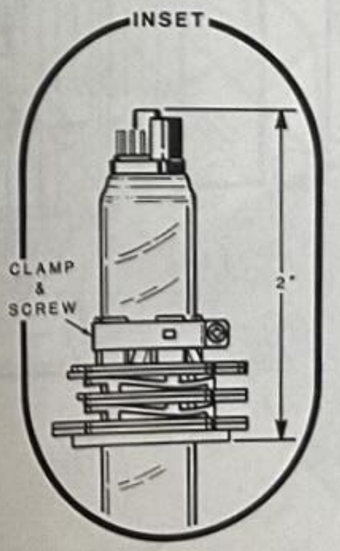


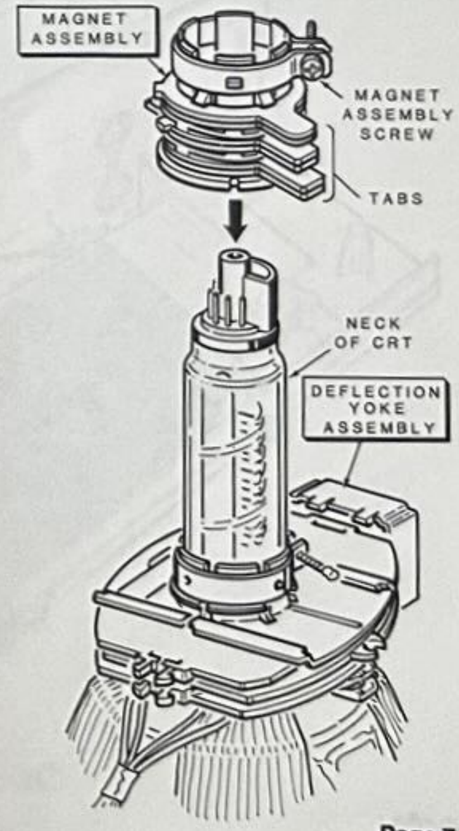


PICTORIAL 2-1

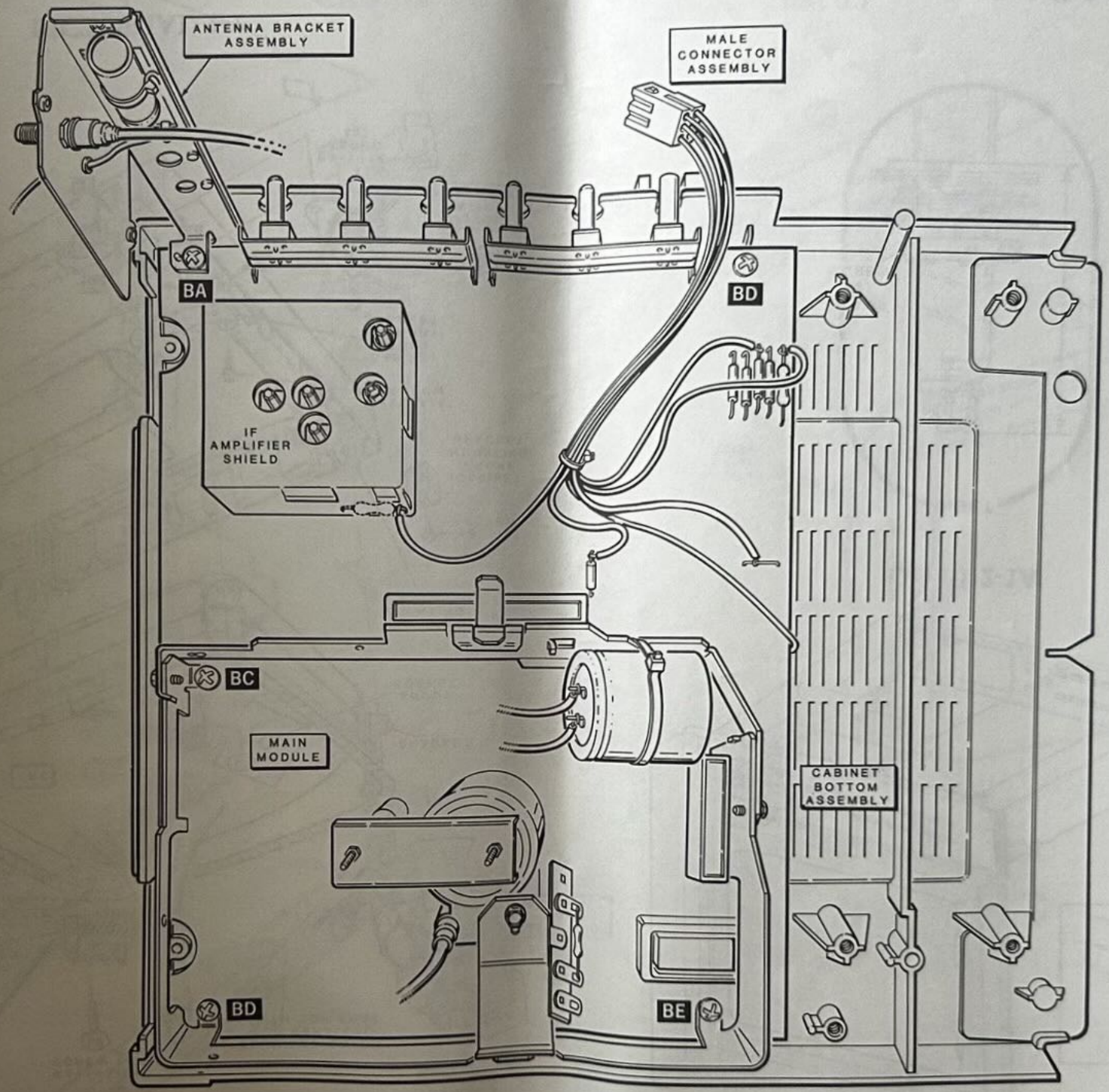


Detail 2-1A

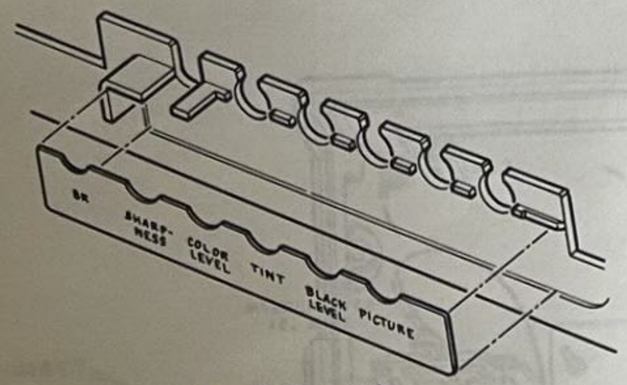




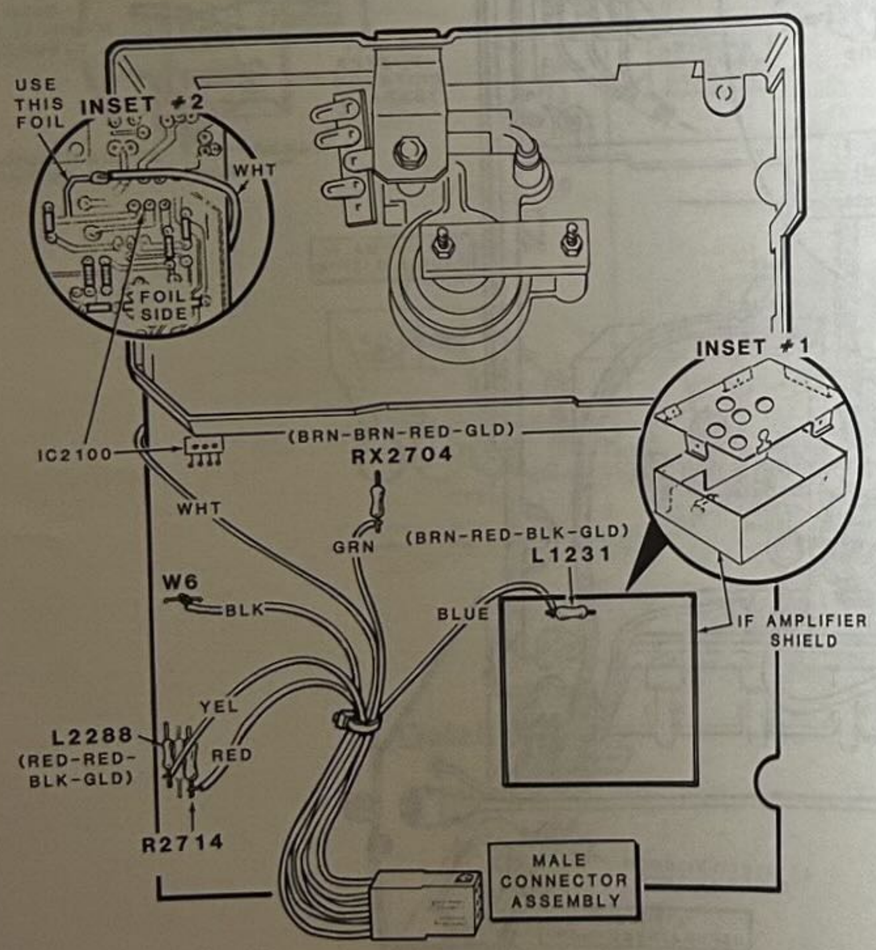
Detail 2-1B



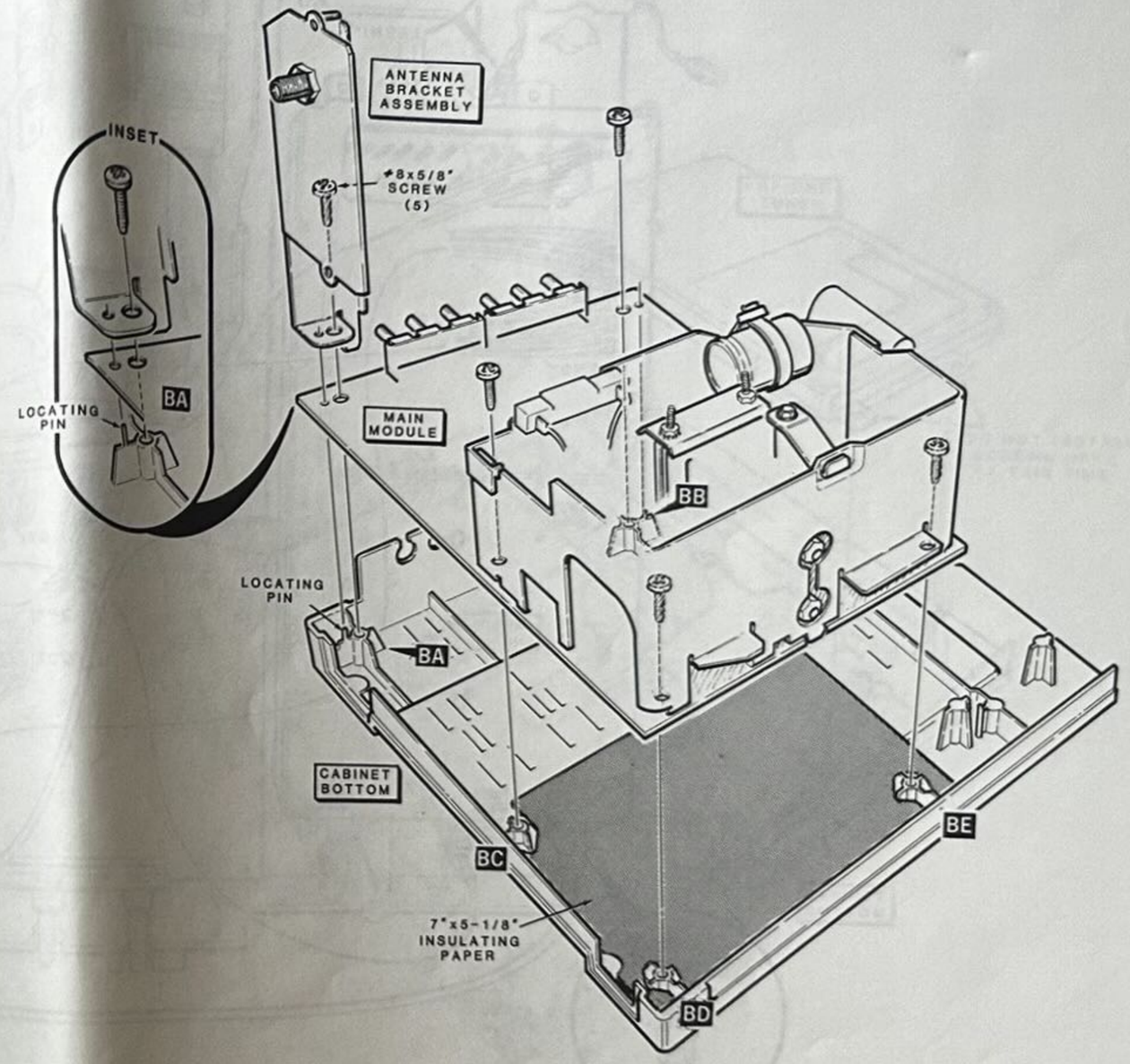
PICTORIAL 2-2



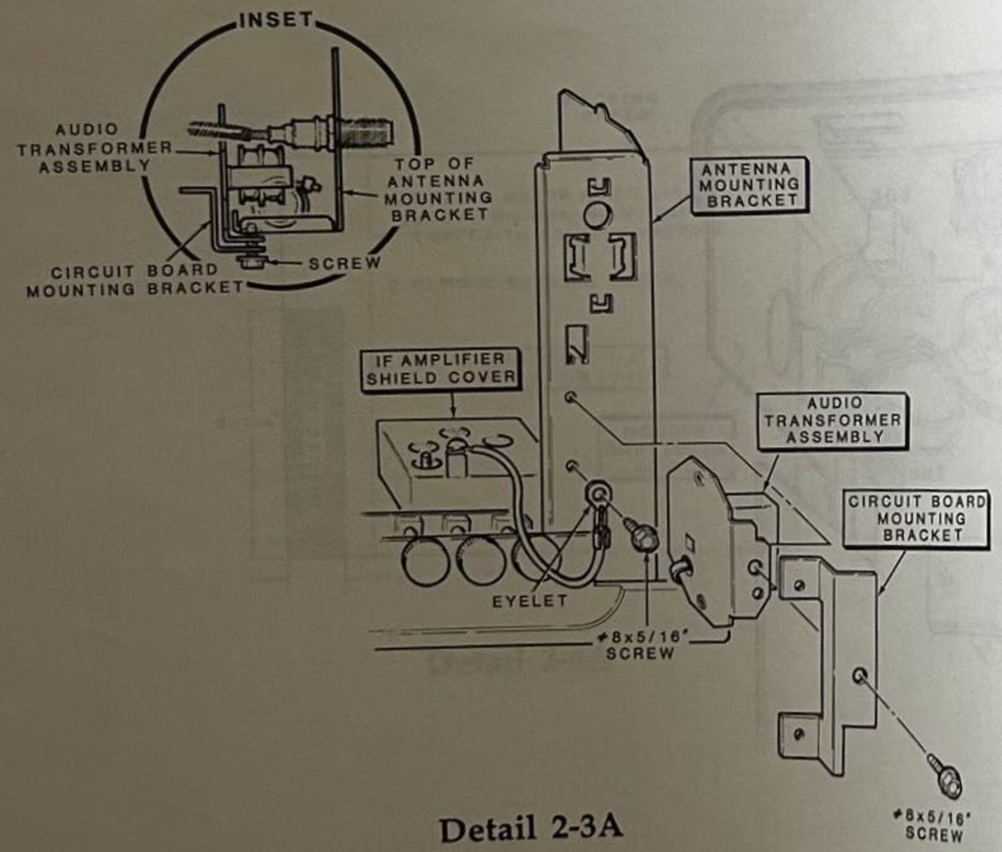
Detail 2-2A



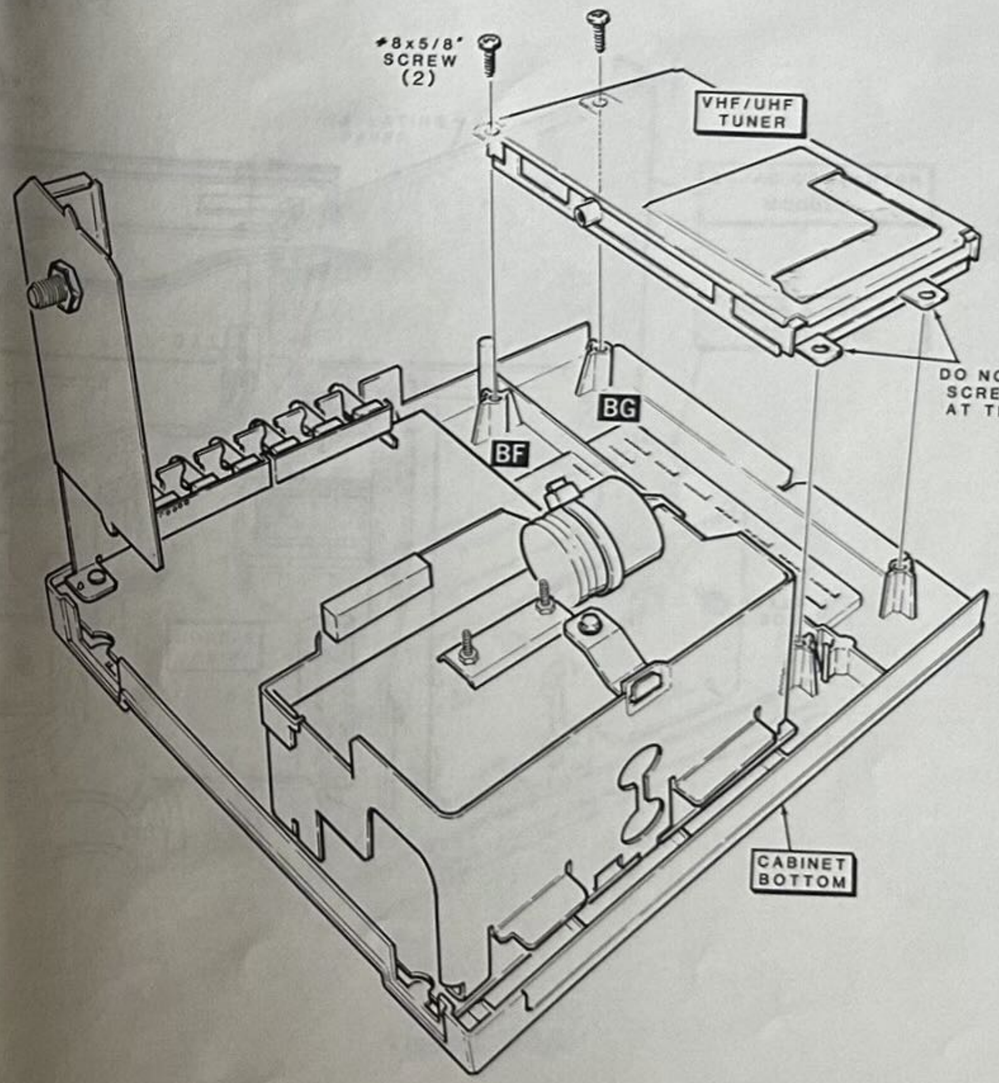
Detail 2-2B



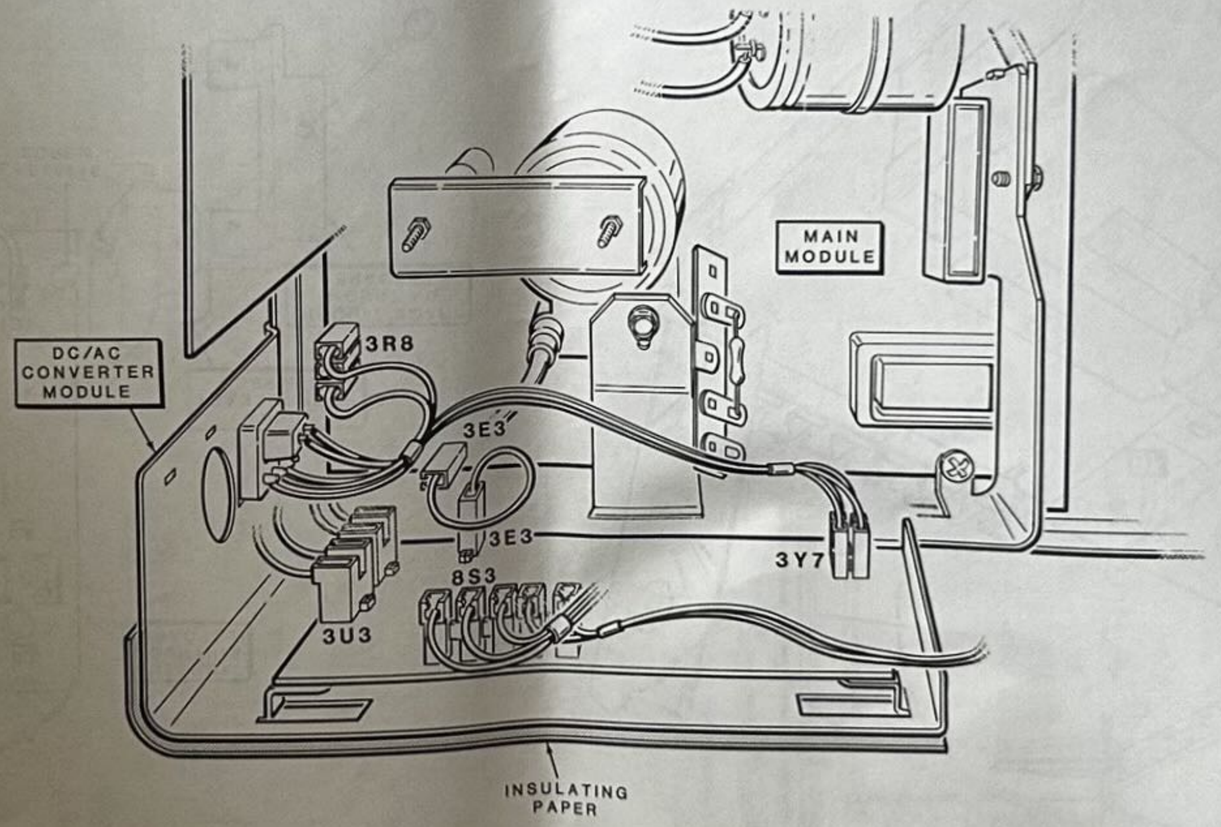
Detail 2-2C



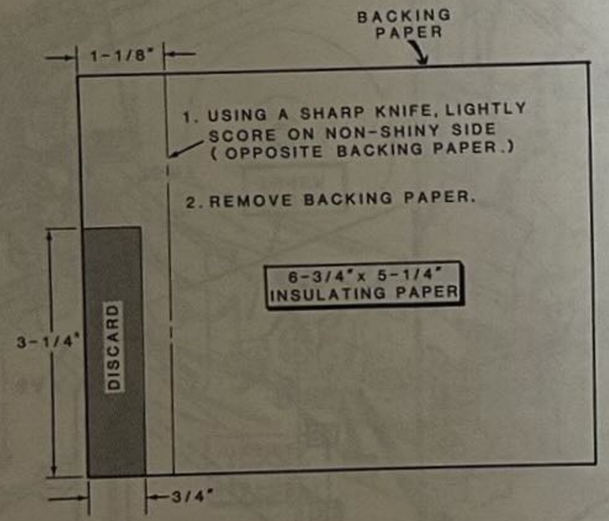
Detail 2-3A



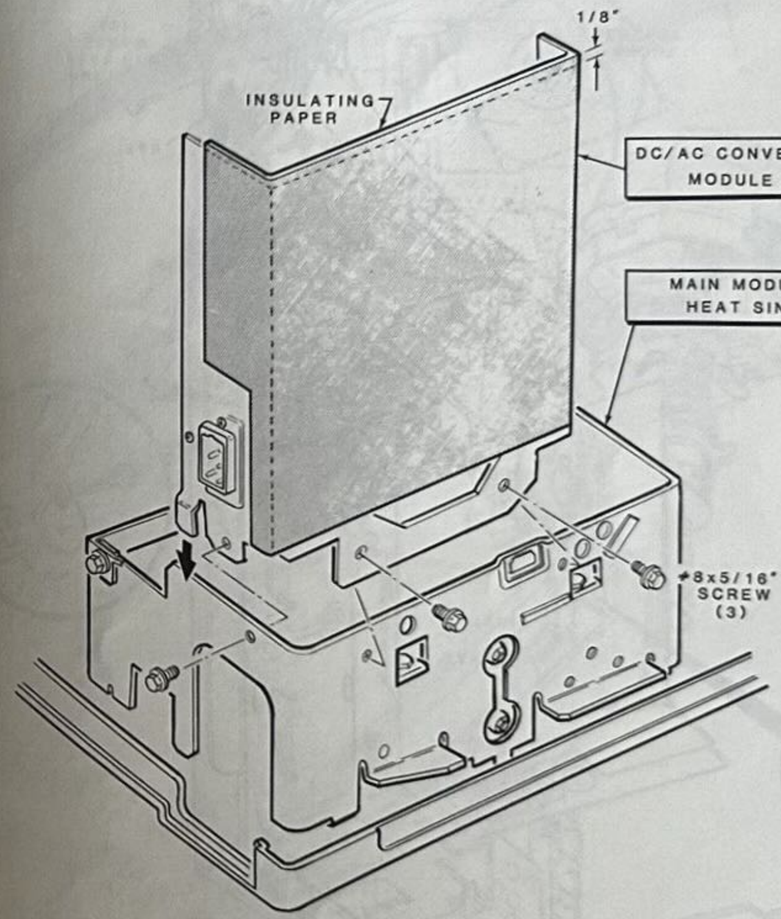
Detail 2-3B



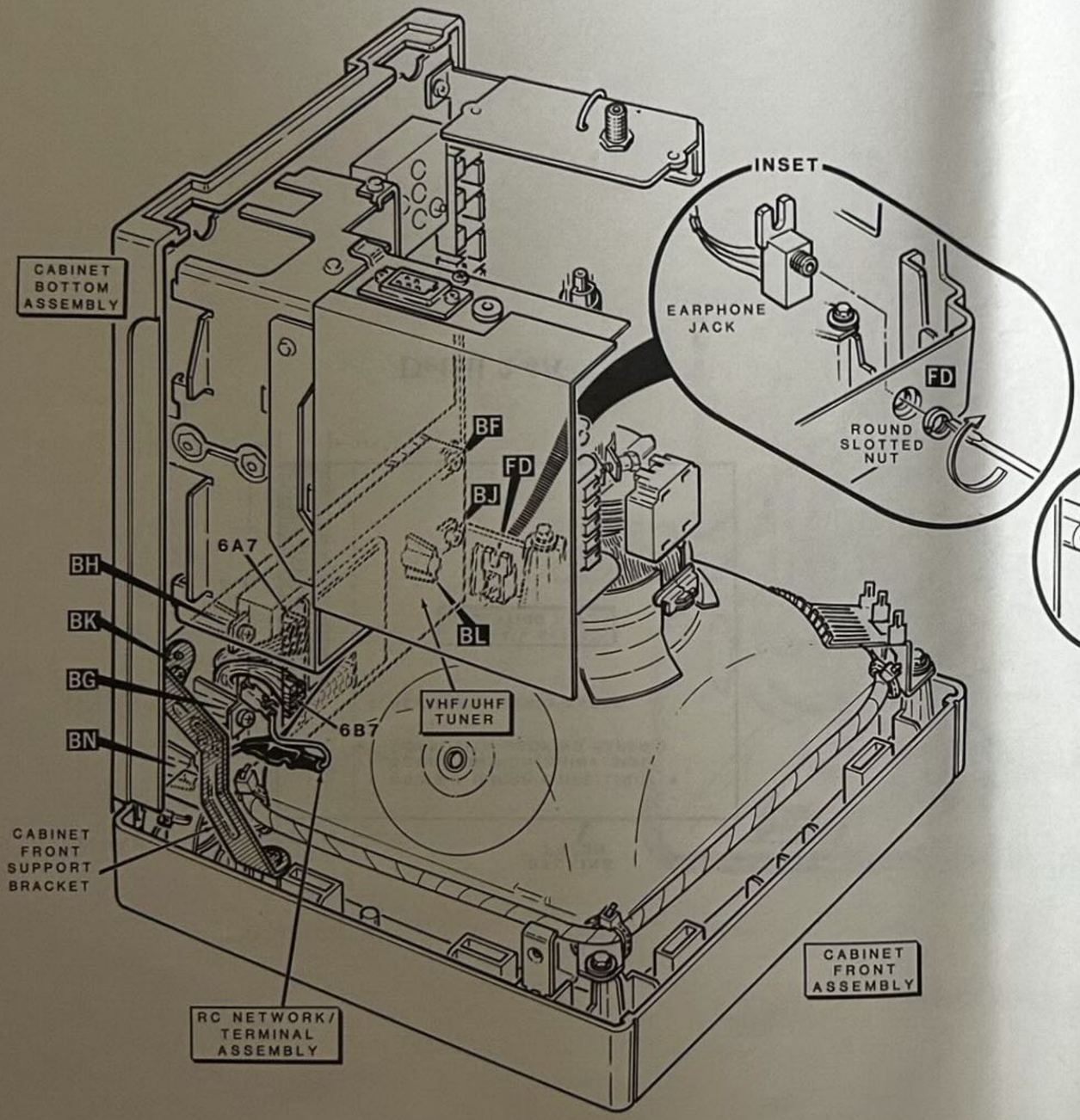
PICTORIAL 2-4



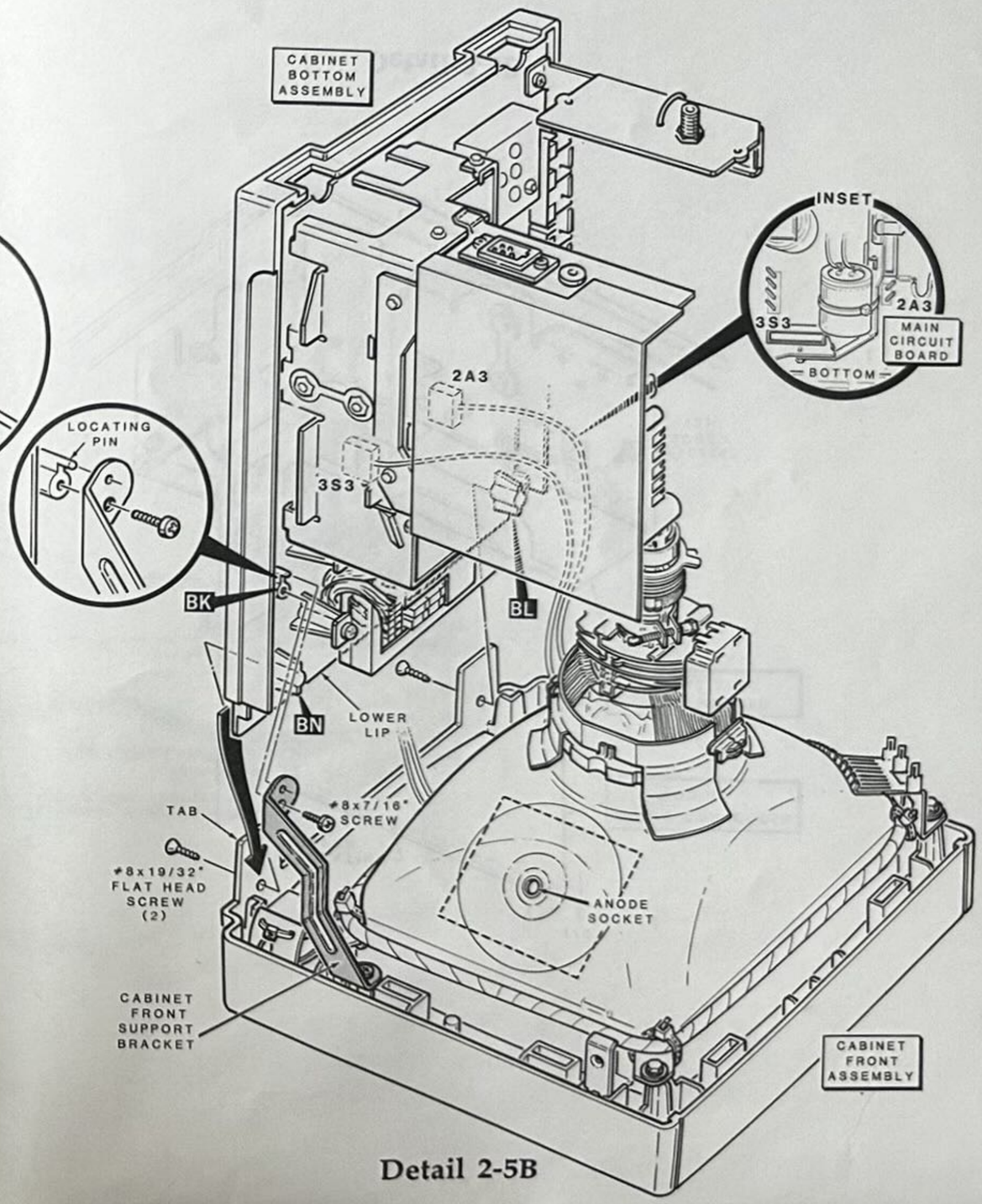
Detail 2-4A



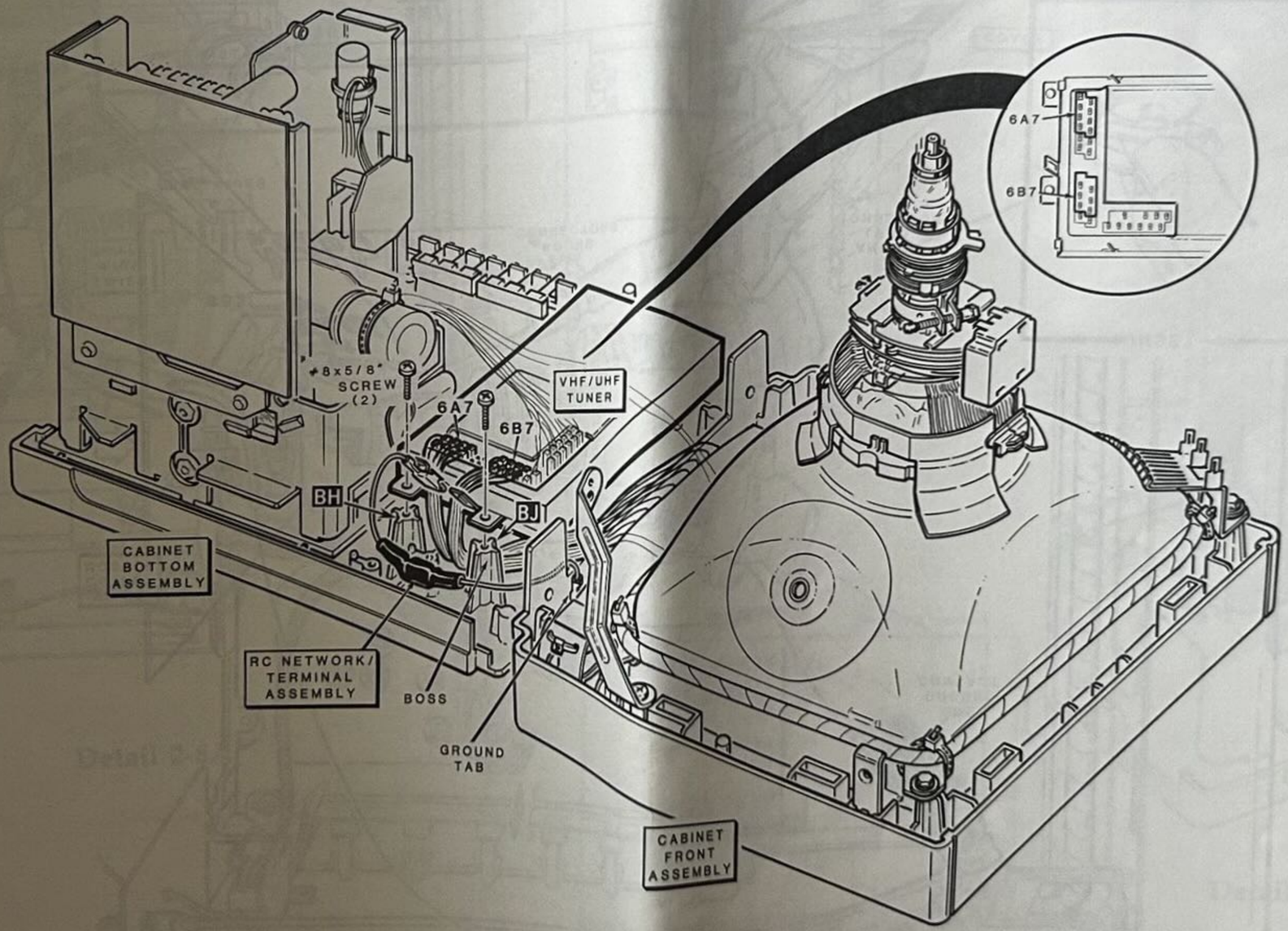
Detail 2-4B



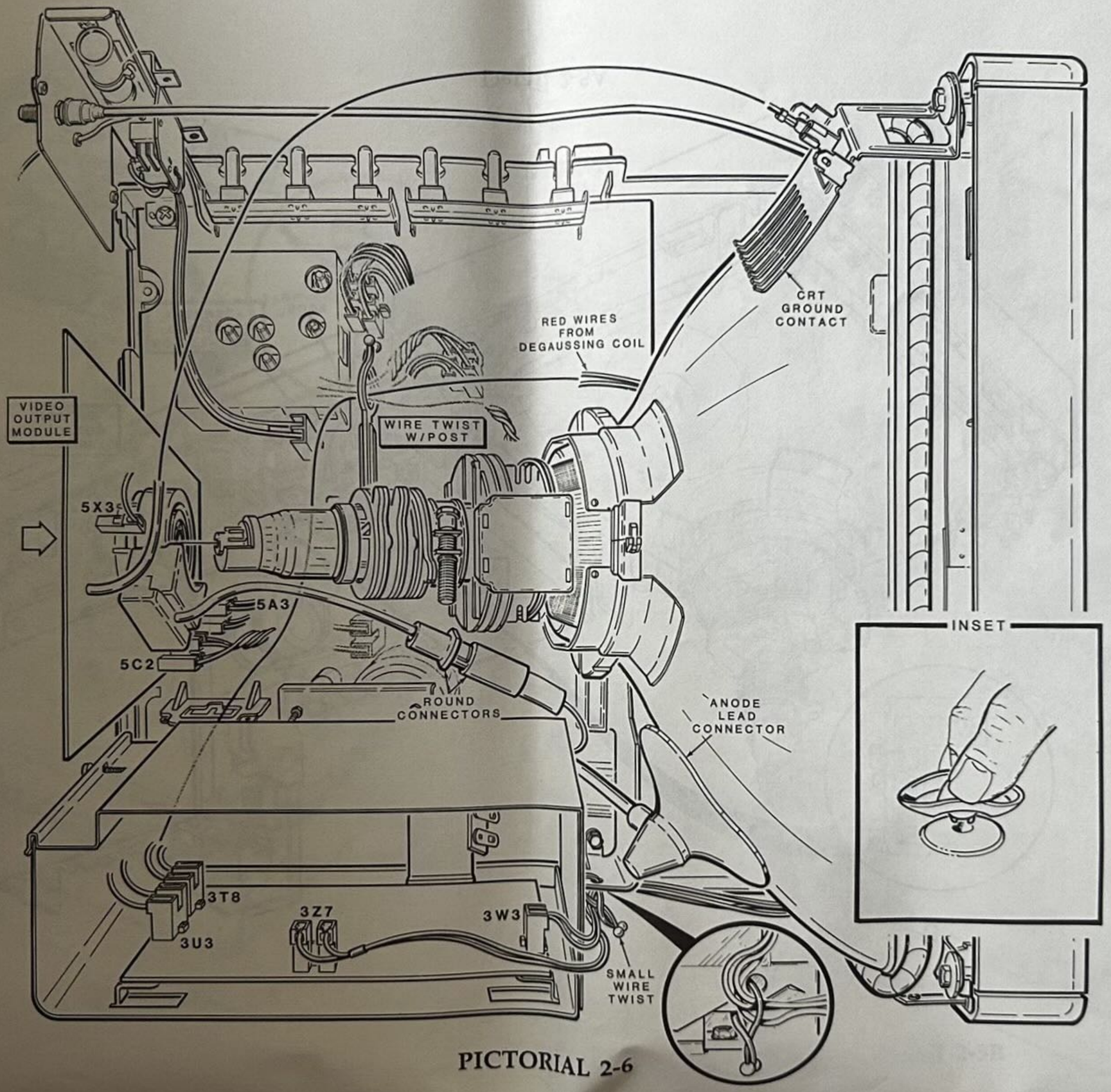
PICTORIAL 2-5



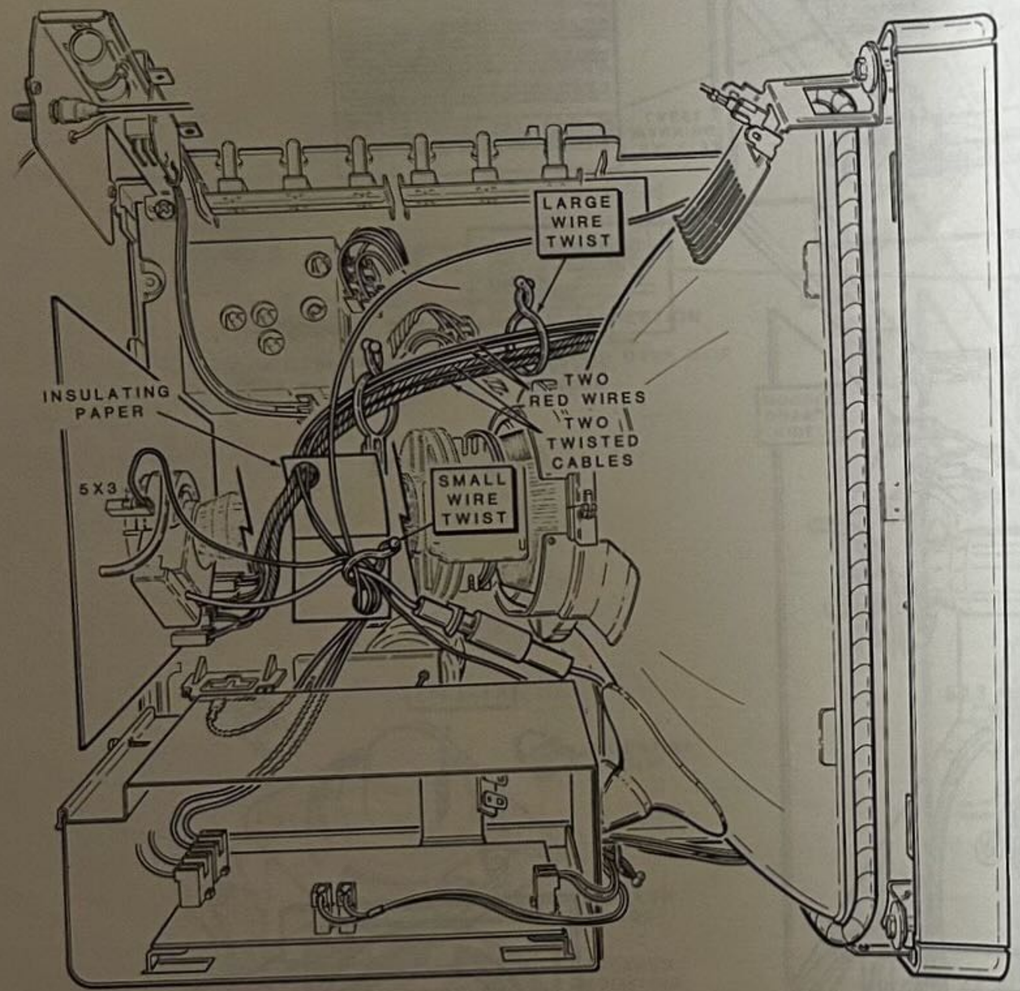
Detail 2-5B


6A7
6B7
#8x5/8"
SCREW
(2)
6A7
6B7
VHF/UHF
TUNER
BH
BJ
CABINET
BOTTOM
ASSEMBLY
RC NETWORK/
TERMINAL
ASSEMBLY
BOSS
GROUND
TAB
CABINET
FRONT
ASSEMBLY

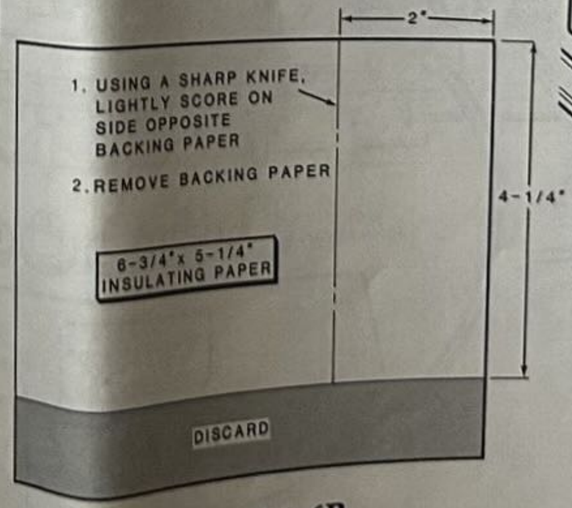
Detail 2-5A



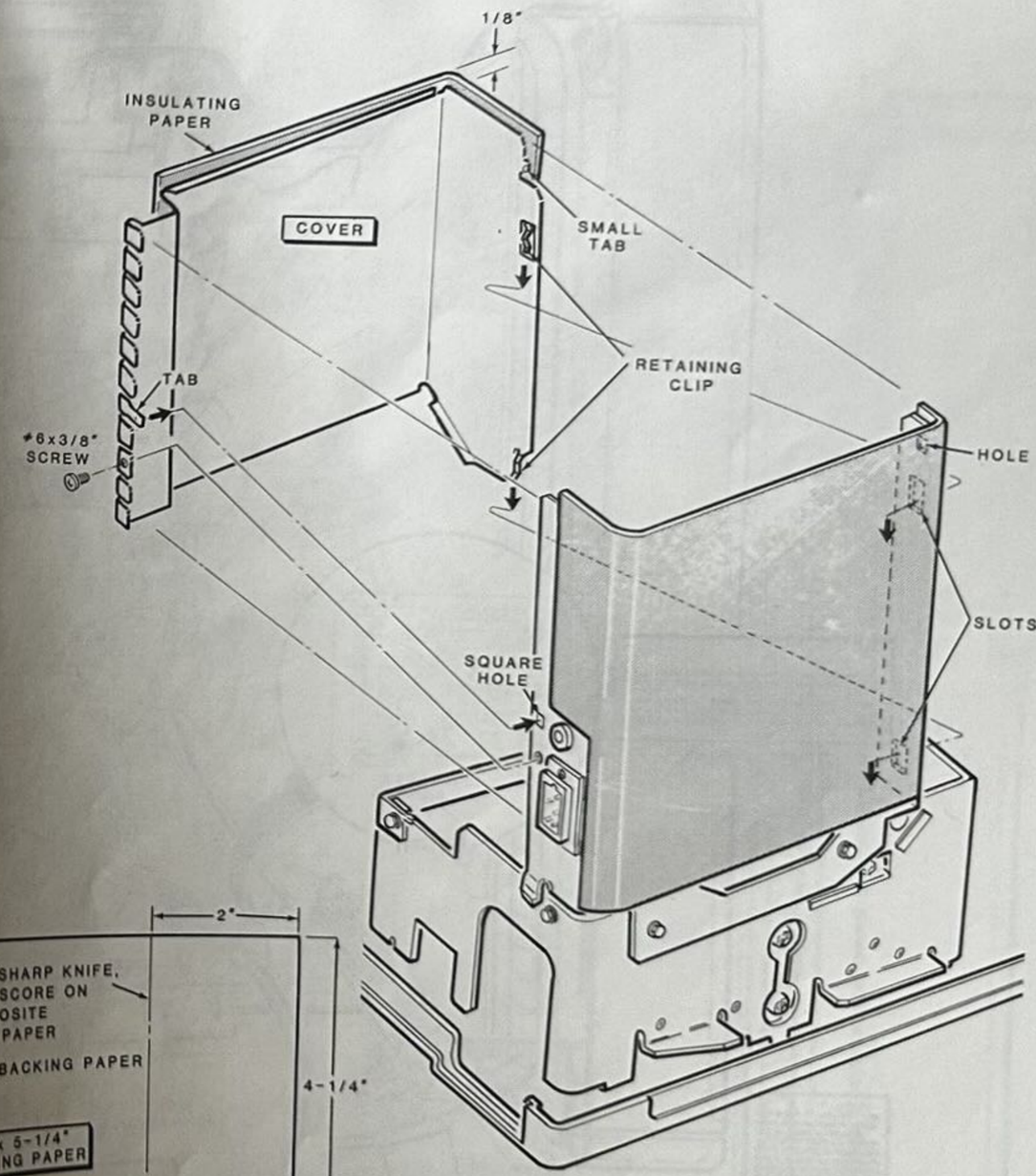
PICTORIAL 2-6



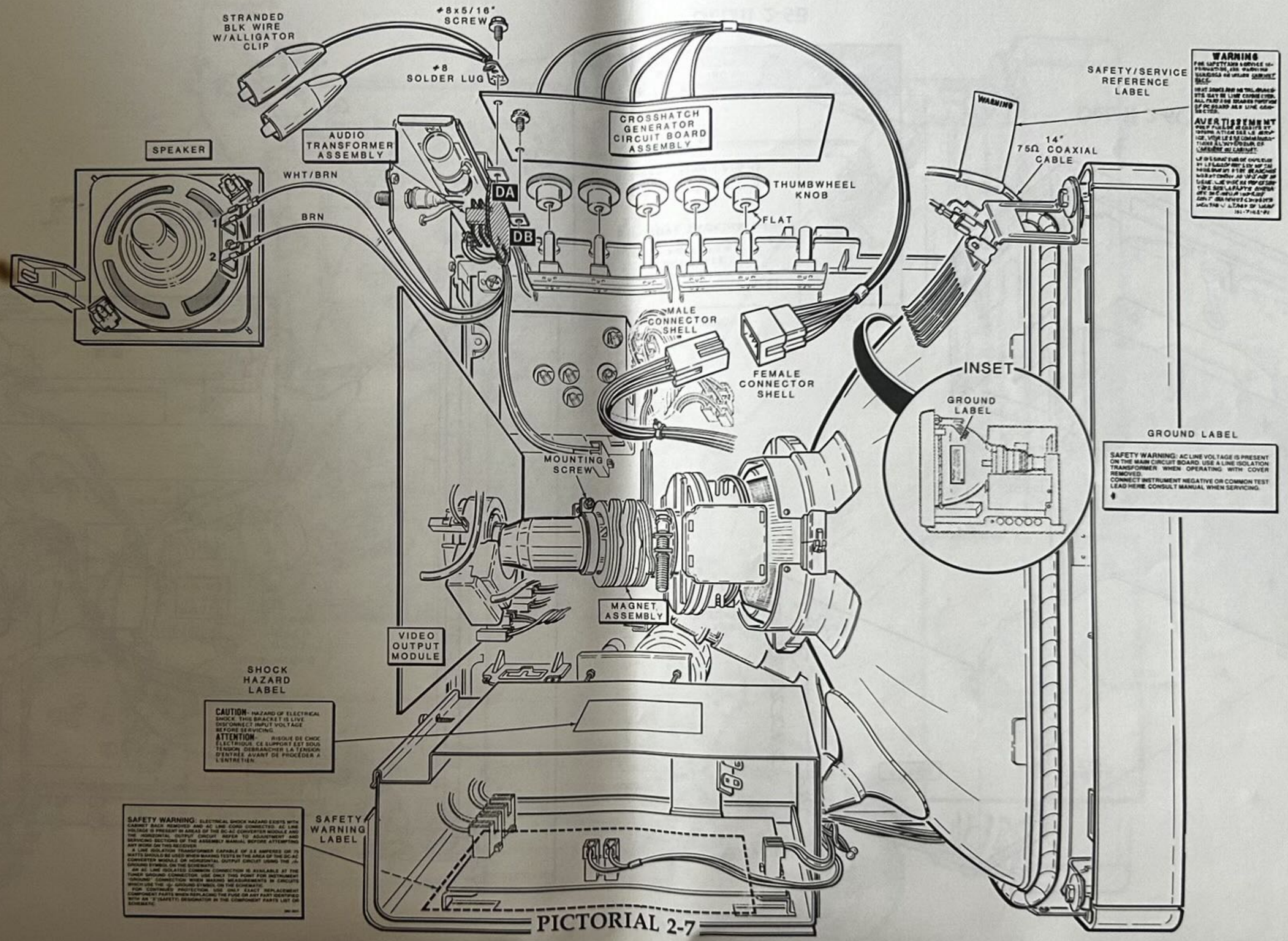
Detail 2-6A



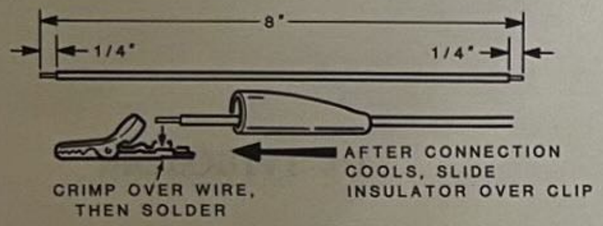
Detail 2-6B



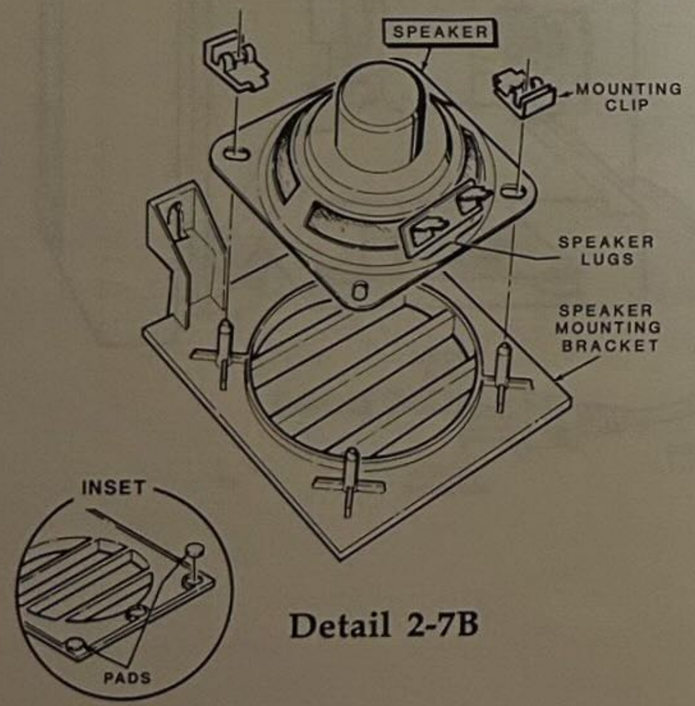
Detail 2-6C


STRANDED BLK WIRE W/ALLIGATOR CLIP
#8x5/16" SCREW
#8 SOLDER LUG
SPEAKER
AUDIO TRANSFORMER ASSEMBLY
WHT/BRN
BRN
CROSSHATCH GENERATOR CIRCUIT BOARD ASSEMBLY
DA
DB
THUMBWHEEL KNOB
FLAT
MALE CONNECTOR SHELL
FEMALE CONNECTOR SHELL
MOUNTING SCREW
MAGNET ASSEMBLY
VIDEO OUTPUT MODULE
SAFETY/SERVICE REFERENCE LABEL
14" 75Ω COAXIAL CABLE
INSET
GROUND LABEL
GROUND LABEL
SHOCK HAZARD LABEL
CAUTION- HAZARD OF ELECTRICAL SHOCK. THIS BRACKET IS LIVE. DISCONNECT INPUT VOLTAGE BEFORE SERVICING.
ATTENTION: RISQUE DE CHOC ELECTRIQUE. CE SUPPORT EST SOUS TENSION. DEBRANCHER LA TENSION D'ENTREE AVANT DE PROCEDER A L'ENTRETIEN.
SAFETY WARNING: ELECTRICAL SHOCK HAZARD EXISTS WITH CABINET BACK REMOVED AND AC LINE CORD CONNECTED. AC LINE VOLTAGE IS PRESENT IN AREAS OF THE DC-AC CONVERTER MODULE AND THE HORIZONTAL OUTPUT CIRCUIT. REFER TO ADJUSTMENT AND SERVICING SECTIONS OF THE ASSEMBLY MANUAL BEFORE ATTEMPTING ANY WORK ON THIS RECEIVER.
A LINE ISOLATION TRANSFORMER CAPABLE OF 2.5 AMPERES OR 75 WATTS SHOULD BE USED WHEN MAKING TESTS IN THE AREA OF THE DC-AC CONVERTER MODULE OR HORIZONTAL OUTPUT CIRCUIT USING THE ⏚ GROUND SYMBOL ON THE SCHEMATIC.
AN AC LINE ISOLATED COMMON CONNECTION IS AVAILABLE AT THE TUNER GROUND CONNECTOR. USE ONLY THIS POINT FOR INSTRUMENT "GROUND" CONNECTION WHEN MAKING MEASUREMENTS IN CIRCUITS WHICH USE THE ⏚ GROUND SYMBOL ON THE SCHEMATIC.
FOR CONTINUED PROTECTION, USE ONLY EXACT REPLACEMENT COMPONENT PARTS WHEN REPLACING THE FUSE OR ANY PART IDENTIFIED WITH AN "S" (SAFETY) DESIGNATOR IN THE COMPONENT PARTS LIST OR SCHEMATIC.
SAFETY WARNING LABEL
SAFETY WARNING: AC LINE VOLTAGE IS PRESENT ON THE MAIN CIRCUIT BOARD. USE A LINE ISOLATION TRANSFORMER WHEN OPERATING WITH COVER REMOVED.
CONNECT INSTRUMENT NEGATIVE OR COMMON TEST LEAD HERE. CONSULT MANUAL WHEN SERVICING.

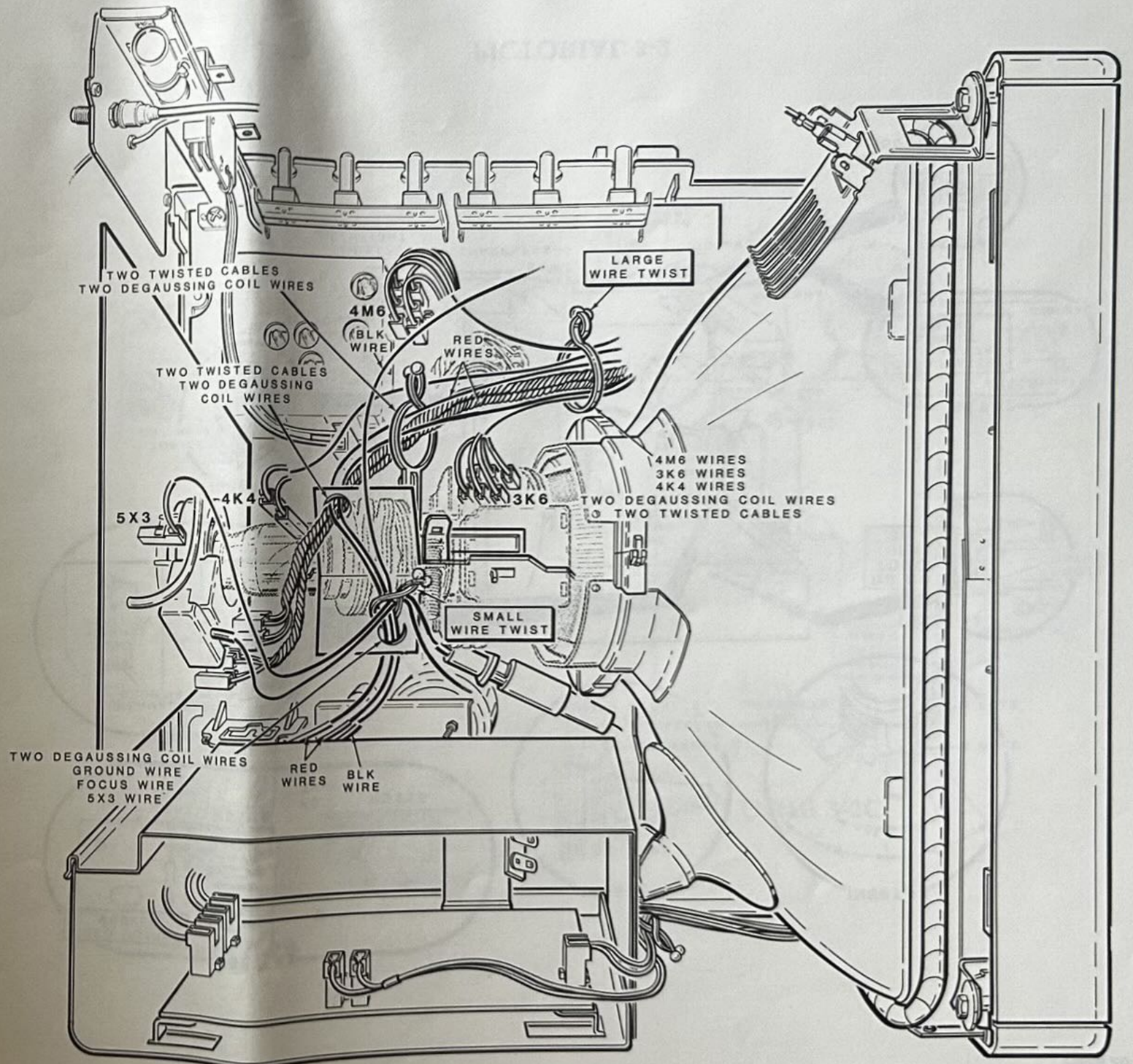
PICTORIAL 2-7



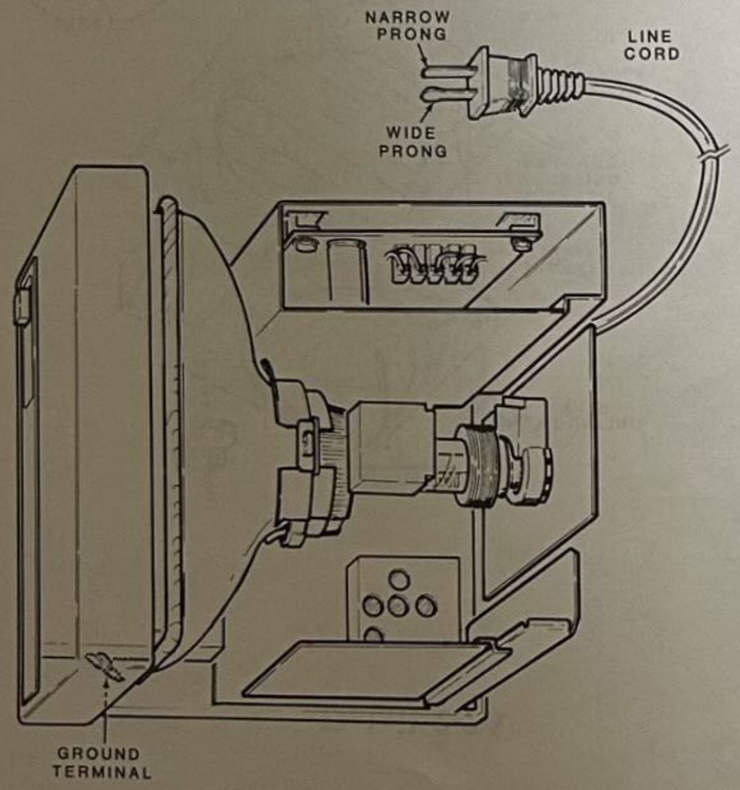
Detail 2-7A



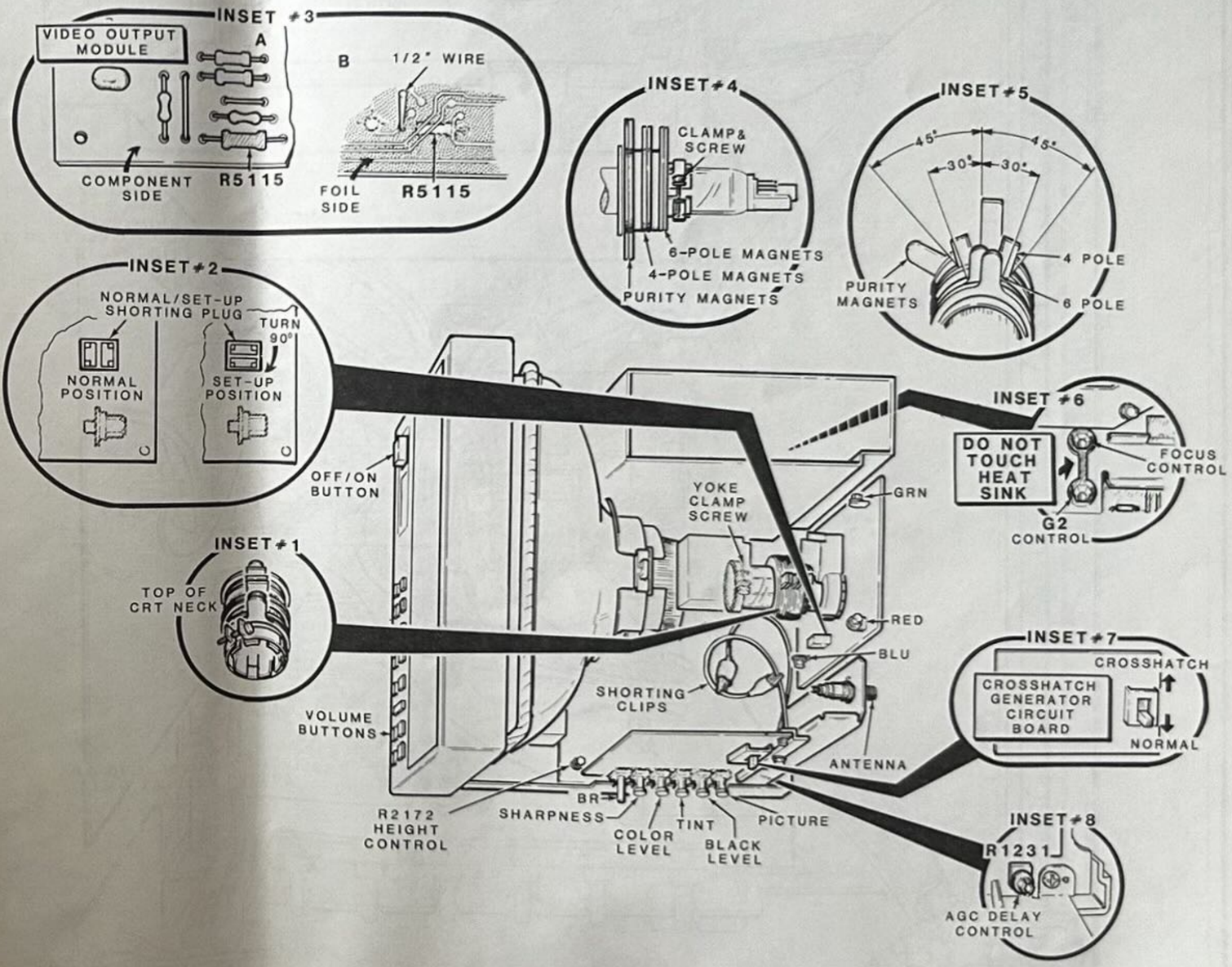
Detail 2-7B



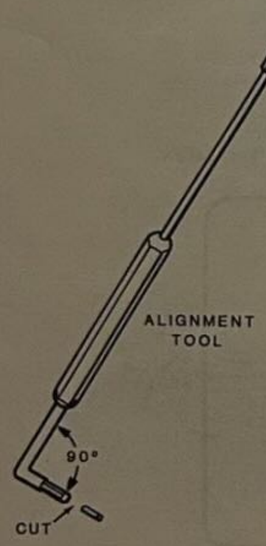
Detail 2-7C



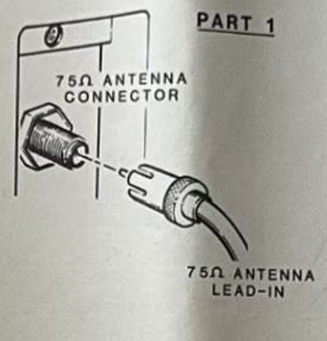
PICTORIAL 3-1

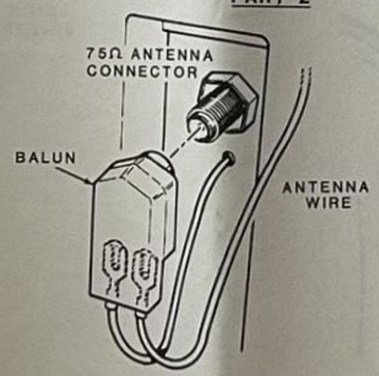


PICTORIAL 3-2

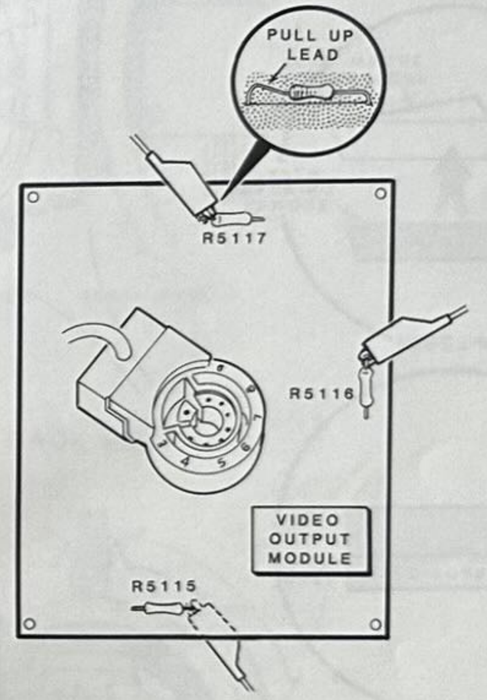


Detail 3-2A

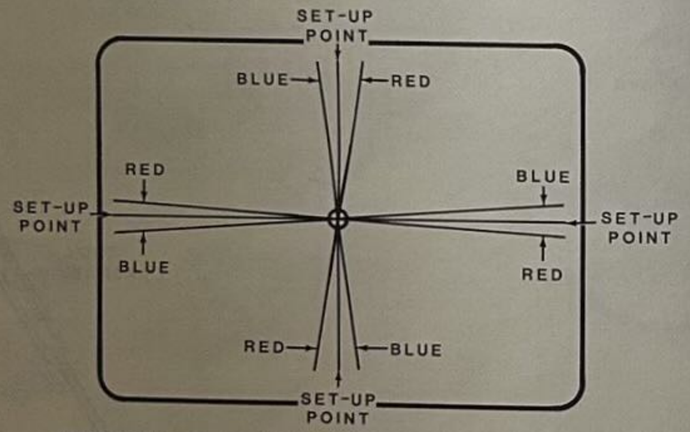




Detail 3-2B

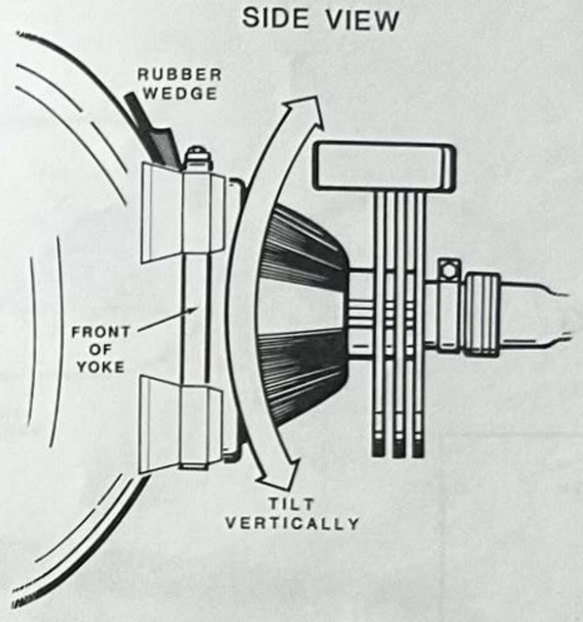


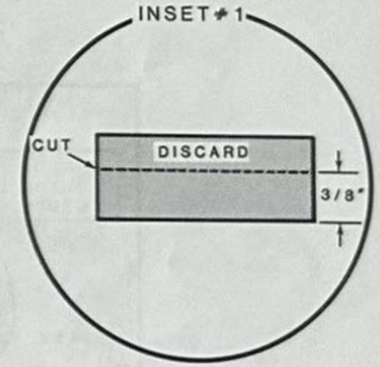
Detail 3-2C

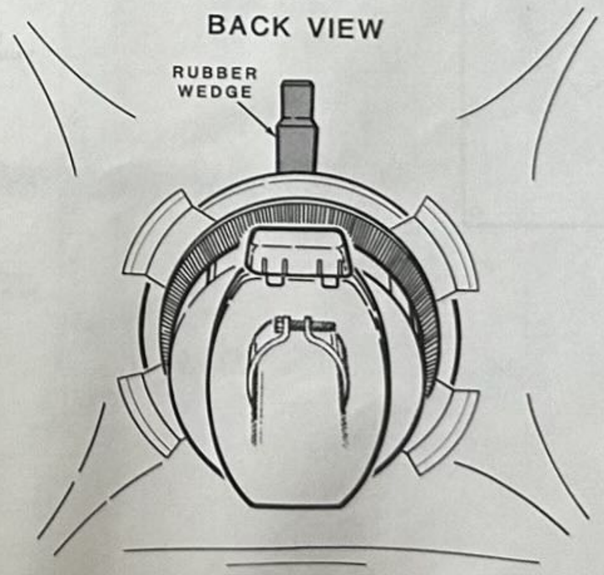


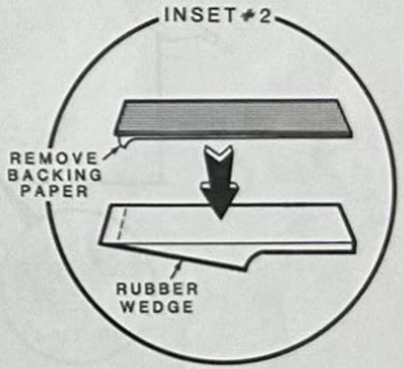
VERTICAL TILT OF YOKE ROTATES THE RED AND BLUE LINES AROUND THE SCREEN CENTER.

PICTORIAL 3-3

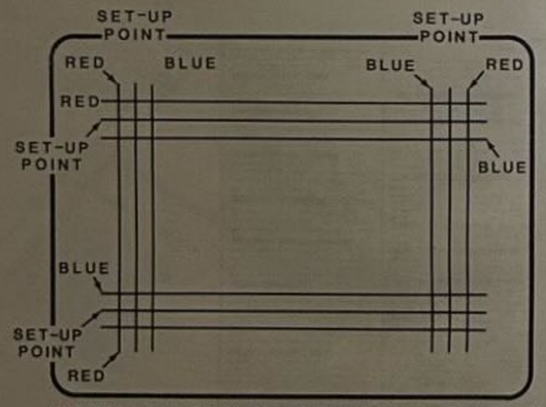








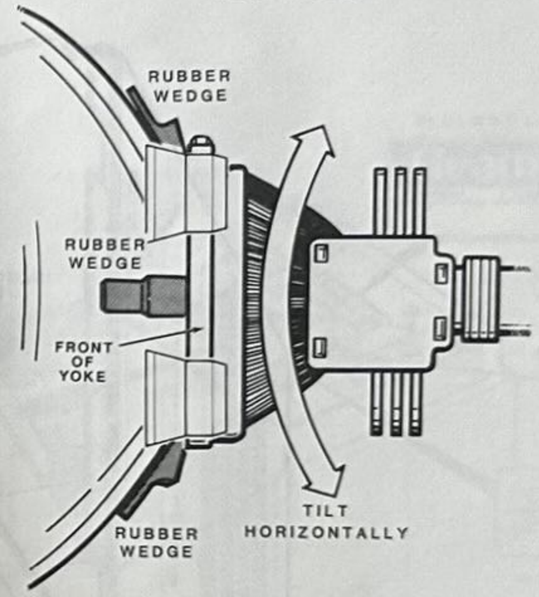
Detail 3-3A



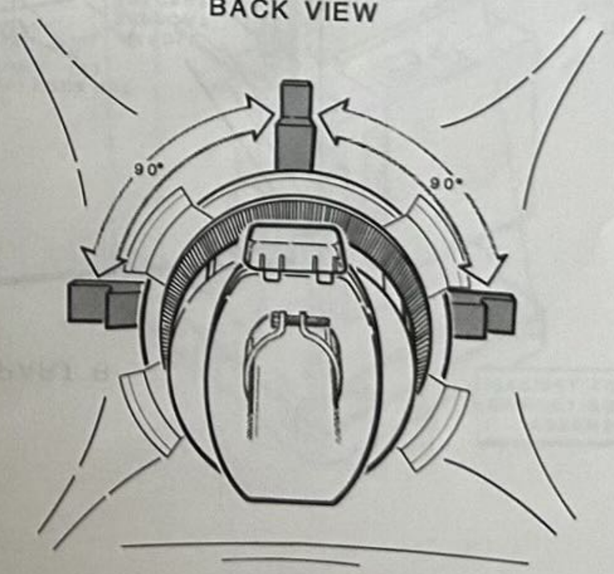
HORIZONTAL TILT OF YOKE VARIES THE SIZE OF THE RED AND BLUE RASTERS.

PICTORIAL 3-4

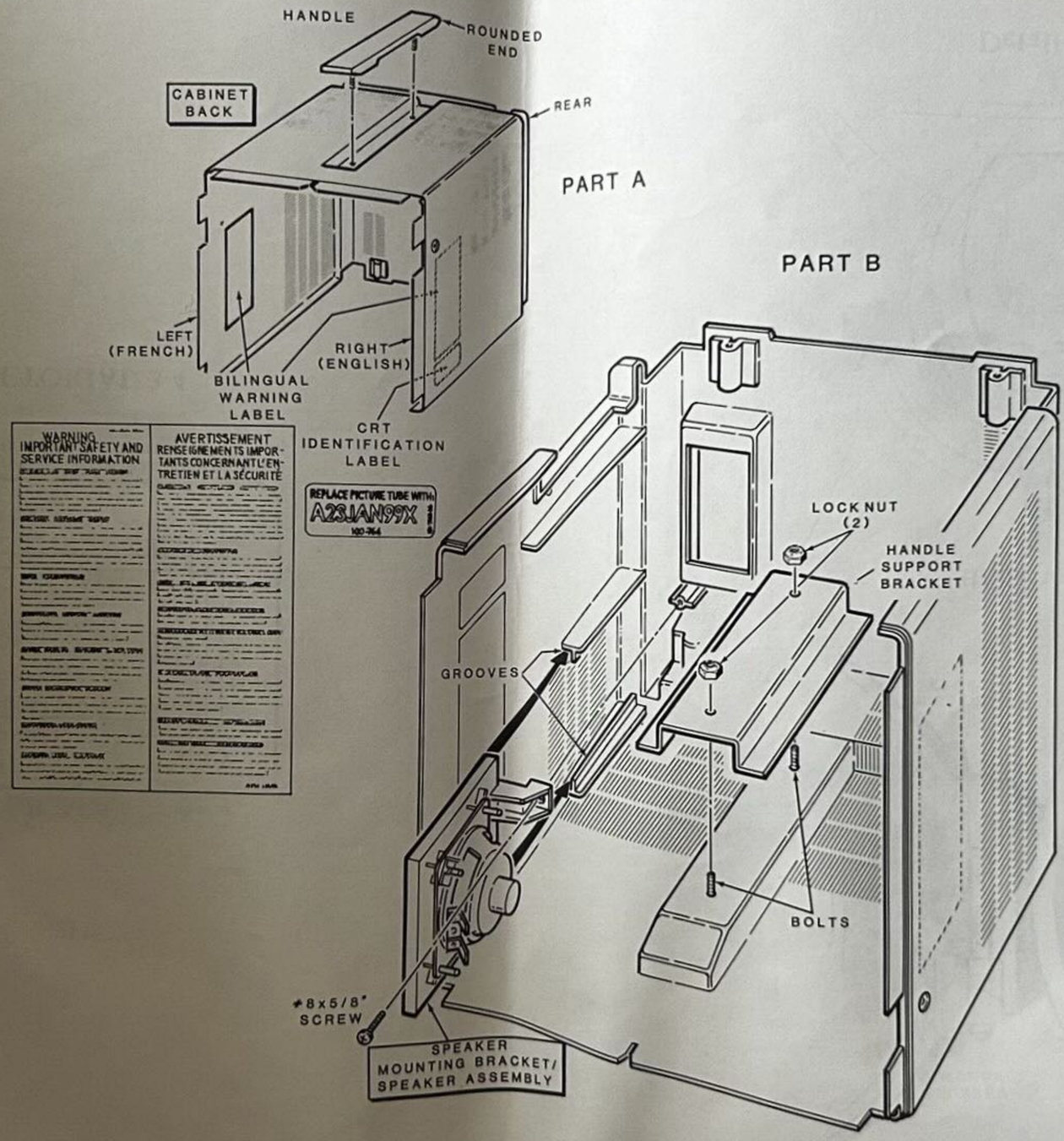
TOP VIEW



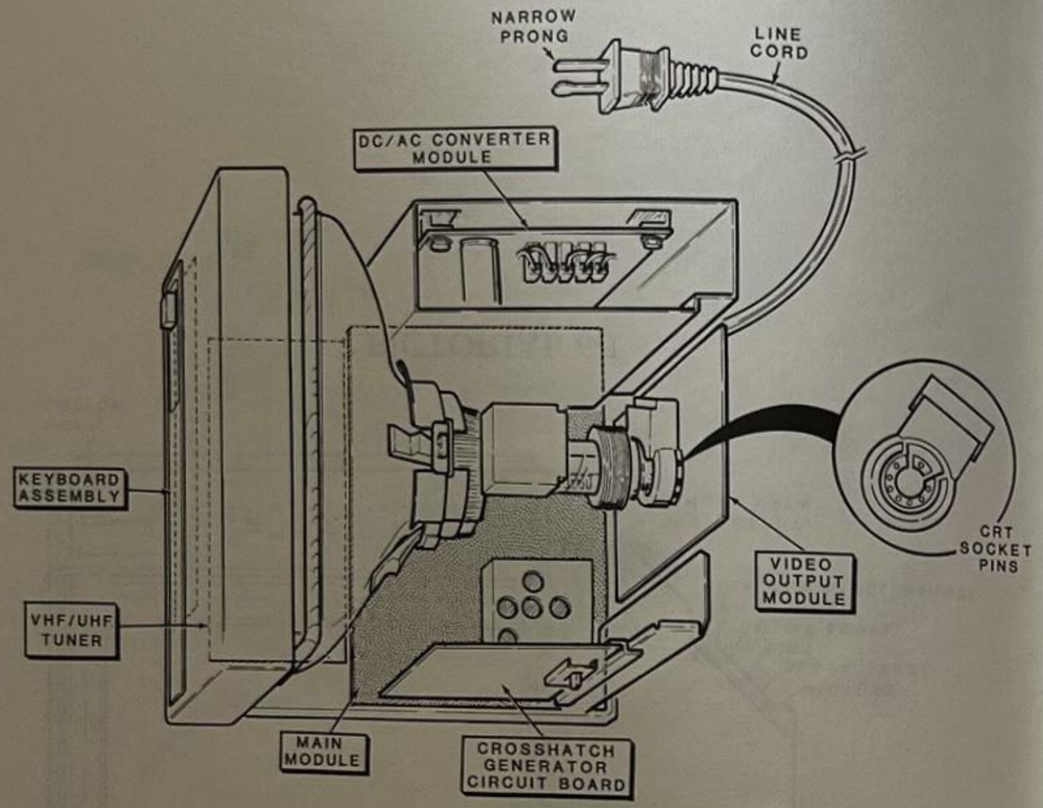
BACK VIEW



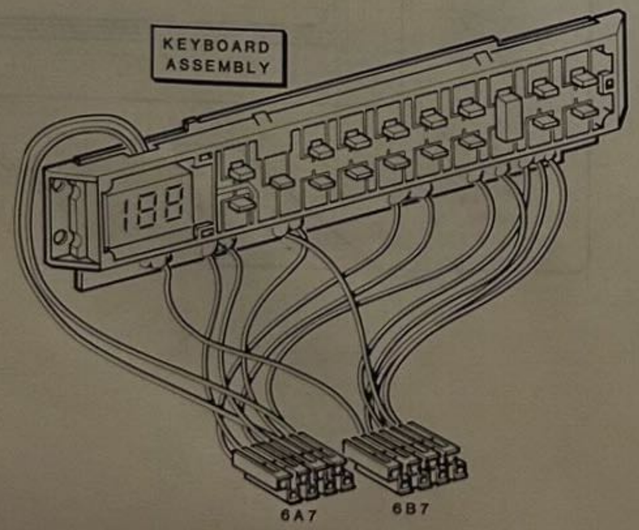
Detail 3-4A



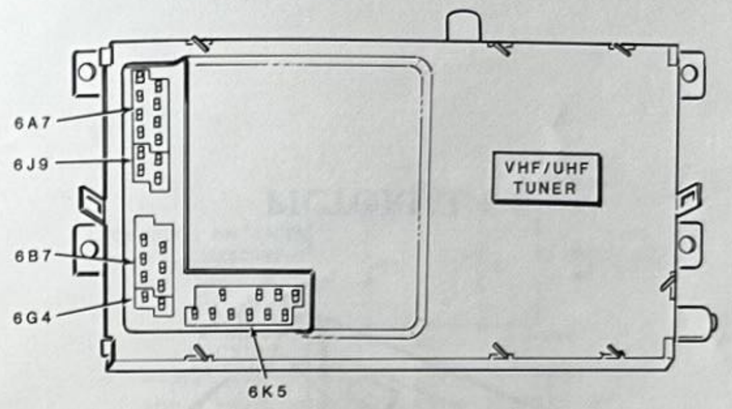
PICTORIAL 4-1



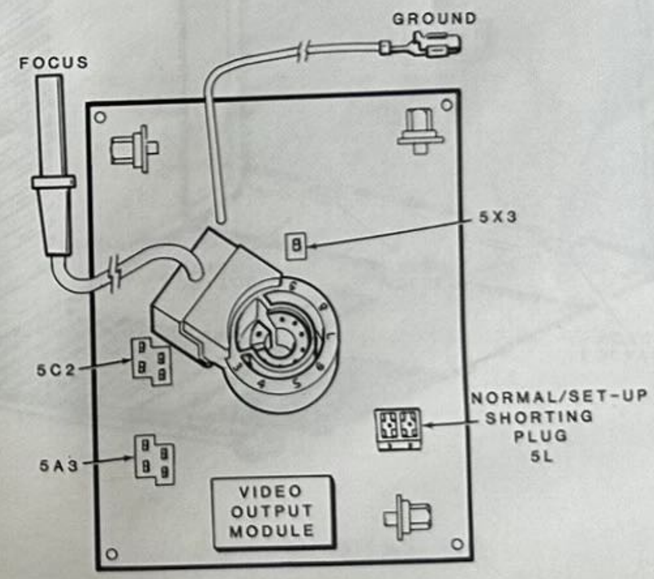
PICTORIAL 7-1



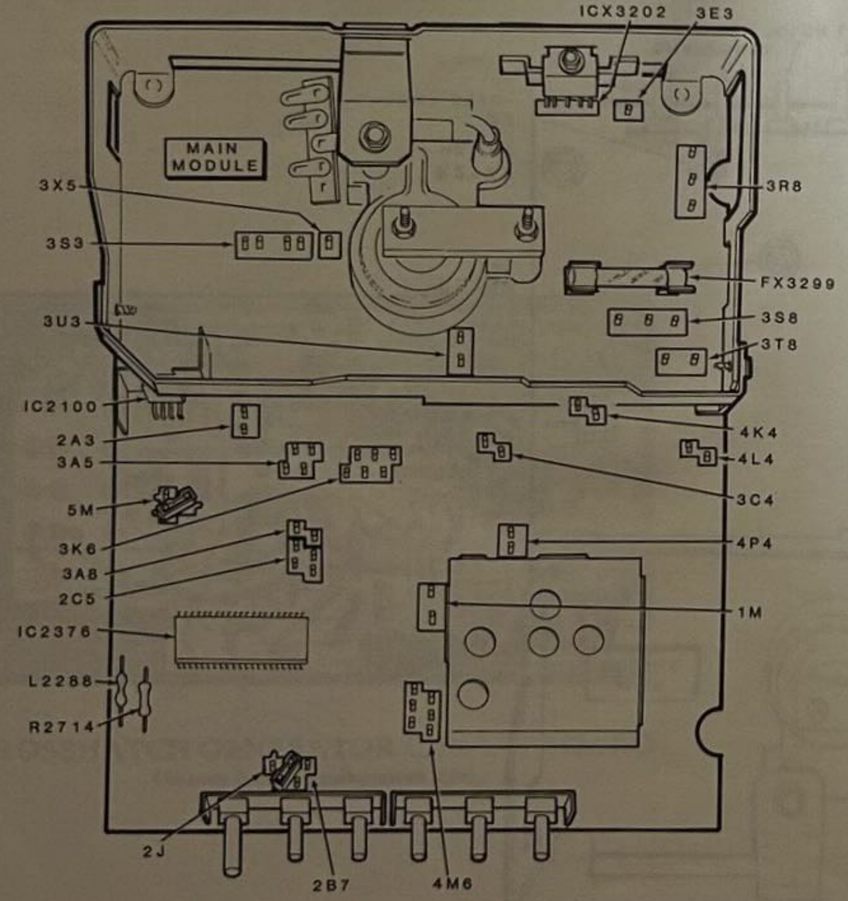
PICTORIAL 7-2



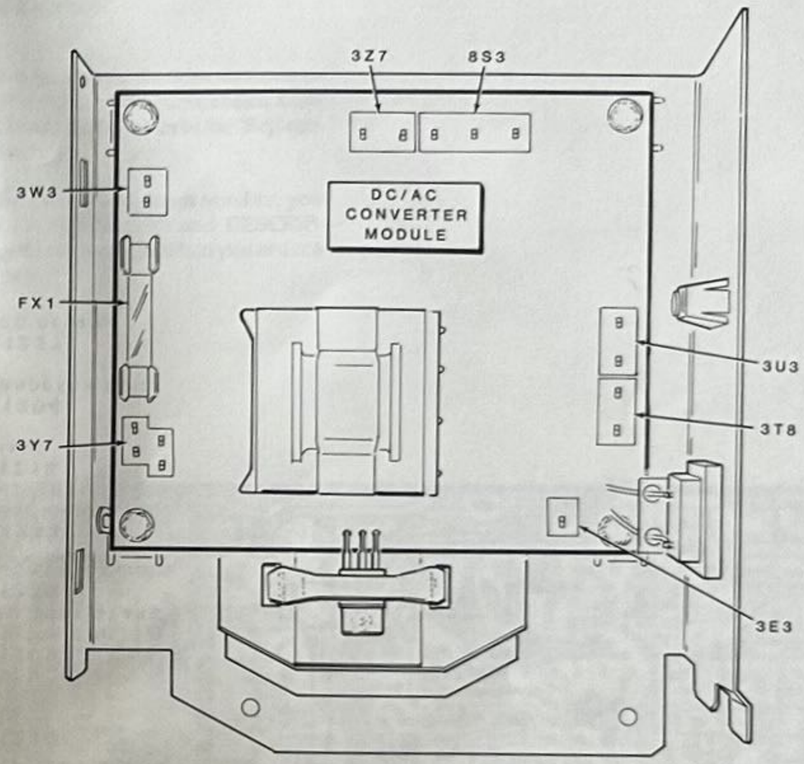
PICTORIAL 7-3



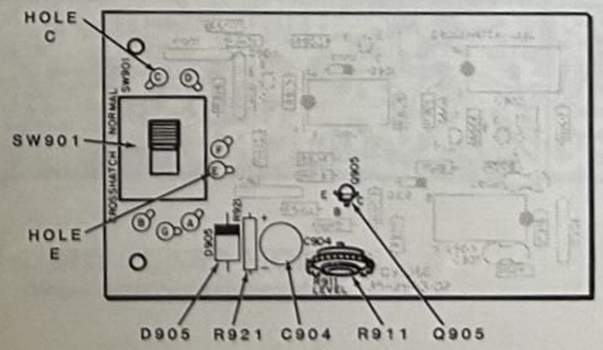
PICTORIAL 7-4



PICTORIAL 7-5

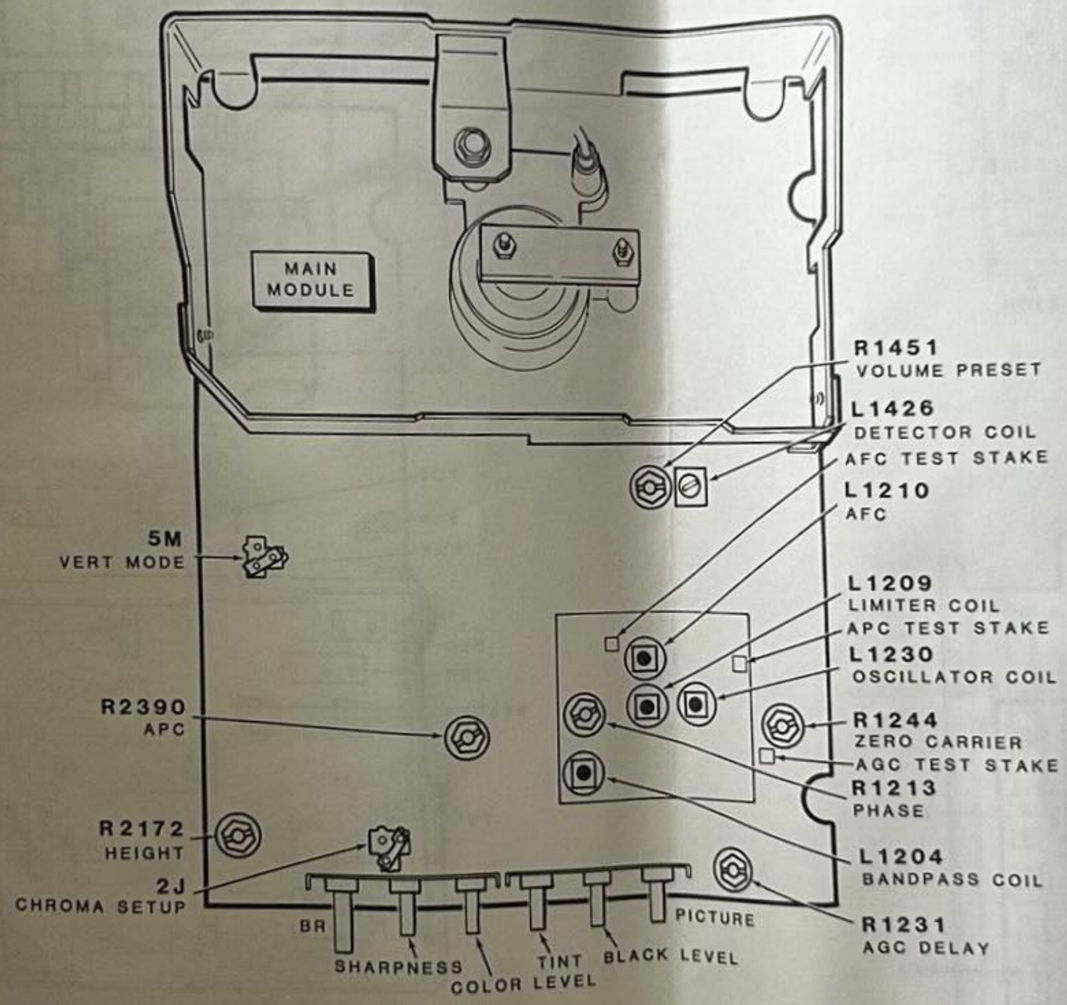


PICTORIAL 7-6



CROSSHATCH GENERATOR CIRCUIT BOARD

PICTORIAL 7-7



PICTORIAL 8-1

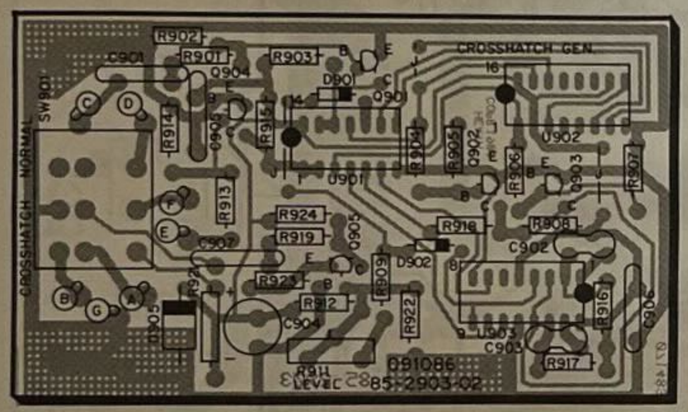
CIRCUIT BOARD X-RAY VIEWS

To find the PART NUMBER of a component for the purpose of ordering a replacement part:

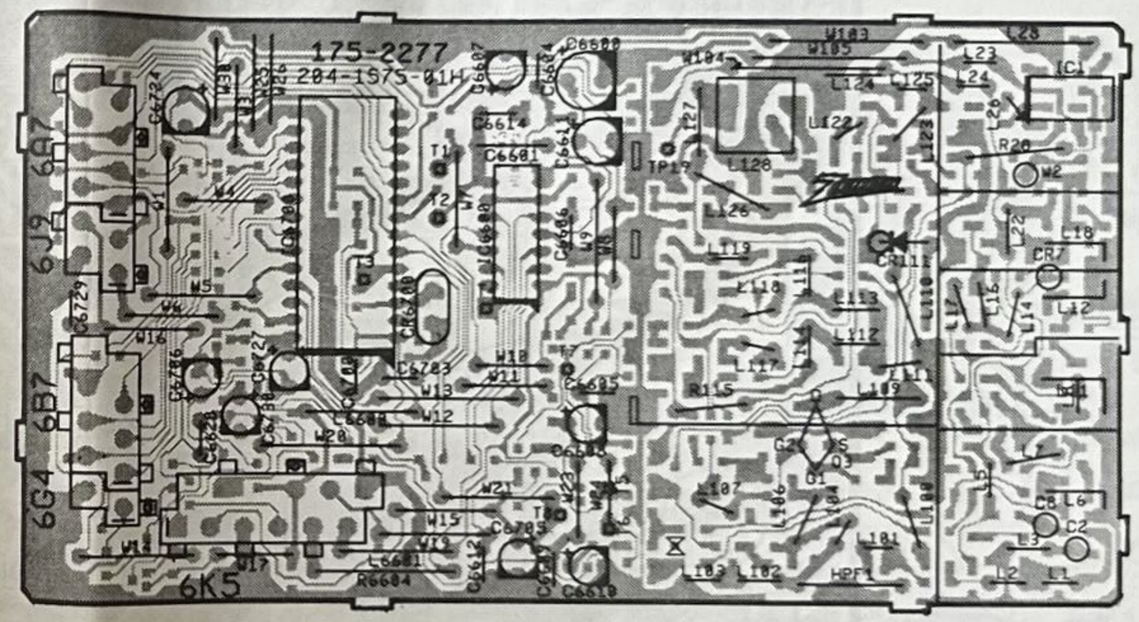
A. Find the circuit component part number on the appropriate X-Ray View.

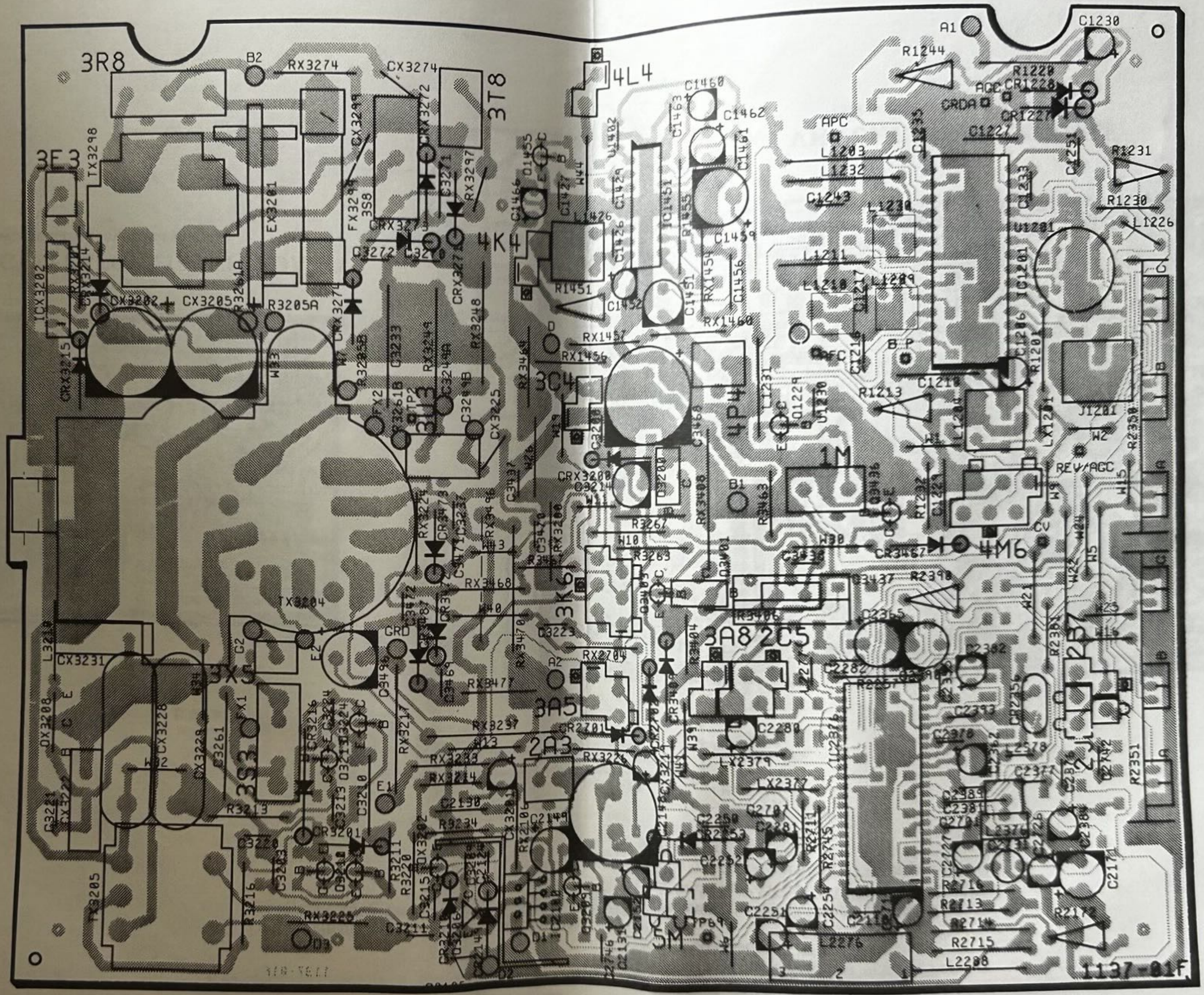
B. Locate the same number in the "Circuit Component Number" column of the "Crosshatch Generator Circuit Board Parts List" or in the "Replacement Parts List."

C. Adjacent to the circuit component number, you will find the PART NUMBER and DESCRIPTION, which you must supply when you order a replacement part.



CROSSHATCH GENERATOR CIRCUIT BOARD
(Shown from the component side)




3R8
B2
RX3274
CX3274
3T8
3F3
TX3298
FX3299
3S8
CRX3272
CRX3271
RX3297
4K4
CRX3273
CRX3270
ICX3202
CRX3215
CX3202
CX3205
R3205A
R3261A
EX3201
W33
CRX3274
RX3248
C3233
RX3249
C3249B
C3225
CX3225
TP2
3J3
FX2
C3261B
R3255
W7
C3249A
RX3244
RX3468
W19
C3437
C3470
C3471
C3472
C3473
C3474
C3475
C3476
C3477
C3478
RX3224
CR3478
RX3225
D3211
D3
TX3204
GRD
G2
E2
3X5
CX3231
L3210
CX3208
CX3228
C3261
W34
W2
C3221
CX3222
3S3
CX3216
C3224
CX3224
RX3217
RX3237
W13
RX3238
RX3214
C2190
R3213
C3213
D3213
C3210
E1
CR3201
C3203
R3211
R3220
R3216
R3205
C3212
CX3212
CX3202
C2149
R2234
C2106
CX3201
RX3226
2A3
3A5
RX2704
RX3477
C3469
C3223
3K6
TX3200
RX3200
RX3470
C3470
W10
R3267
W11
CRX3200
D3214
C3468
RX3408
B1
R3463
4P4
RX1457
RX1456
RX3464
3C4
C1460
C1463
C1462
C1461
C1459
C1454
C1456
RX1454
RX1460
C1451
C1452
R1451
C1455
C1453
C1429
C1426
L1426
C1427
C1466
D1455
IC1451
U1402
C1402
C
B
4L4
A1
C1230
R1244
R1220
CR1228
CR1227
AGC
CRDA
APC
L1203
L1232
C1243
C1227
C1233
C1251
R1231
R1230
L1226
L1210
L1211
L1218
L1217
L1209
C1217
C1216
C1206
IC1201
U1201
R1201
J1201
W2
REV/AGC
LX1201
C1214
R1213
C1215
L1231
L1230
Q1229
U1230
1M
4M6
CR3467
C3436
C3437
R2398
C2365
3A82C5
C2282
C2280
LX2379
LX2377
C2707
C2708
C2250
C2253
C2252
C2251
C2254
R2745
R2711
C2116
C2131
C2746
R2746
D2131
D2132
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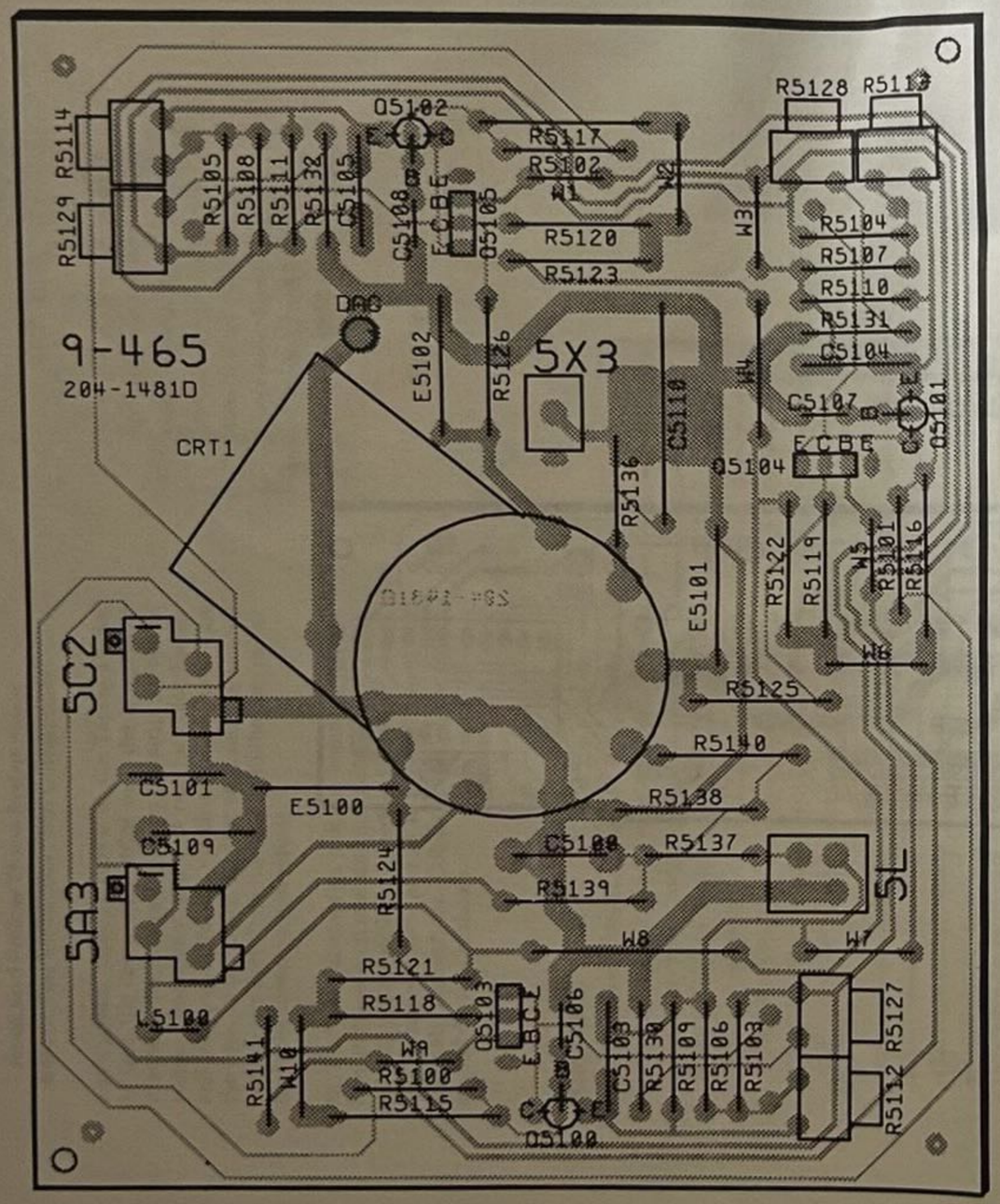
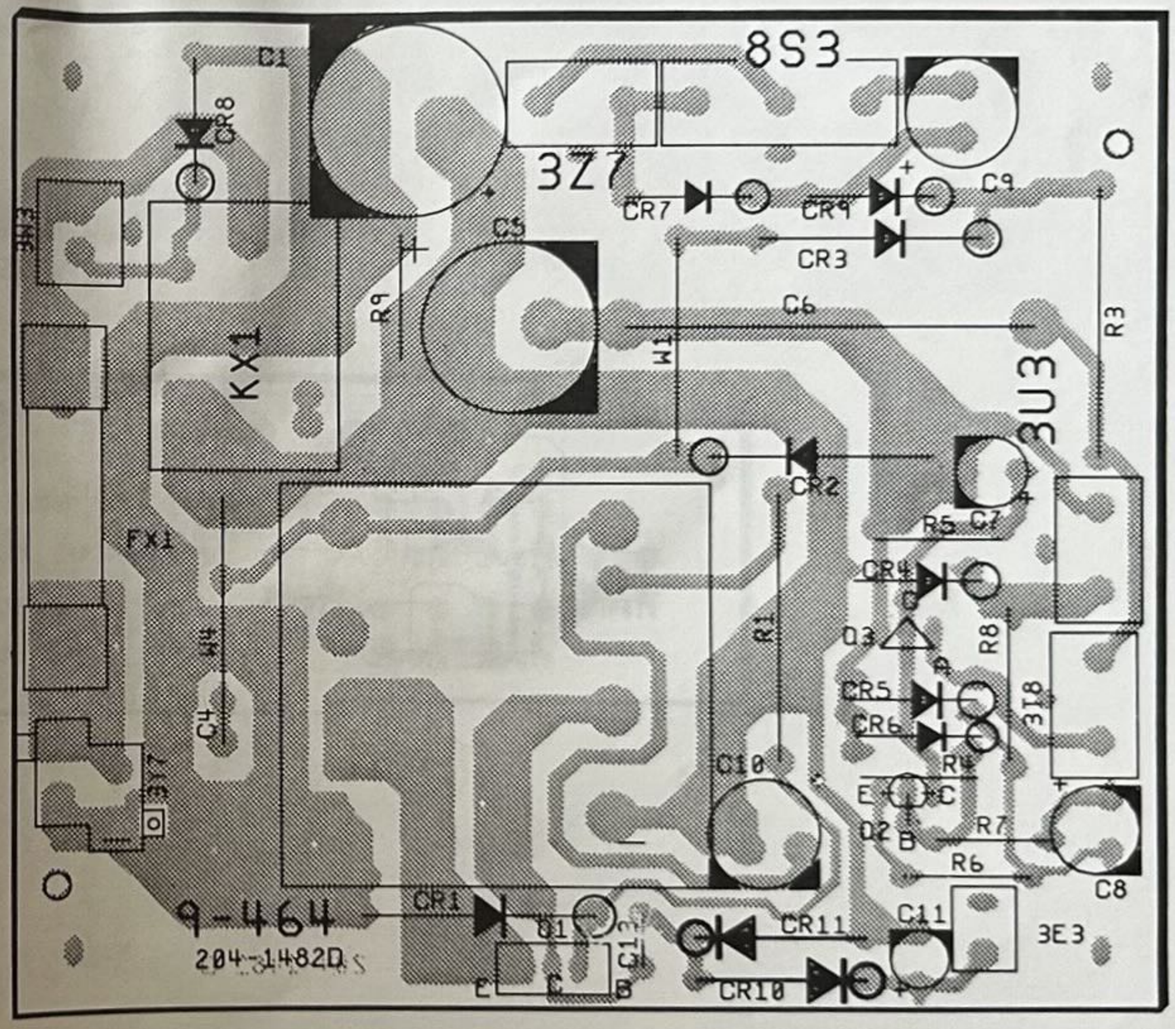
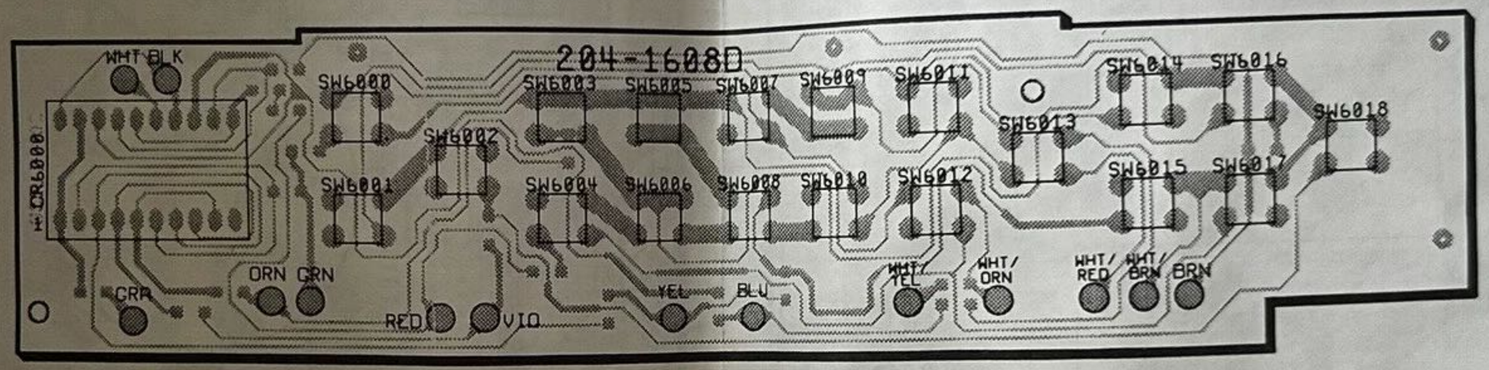


VIDEO OUTPUT MODULE
(Shown from the component side)



DC/AC CONVERTER MODULE
(Shown from the component side)



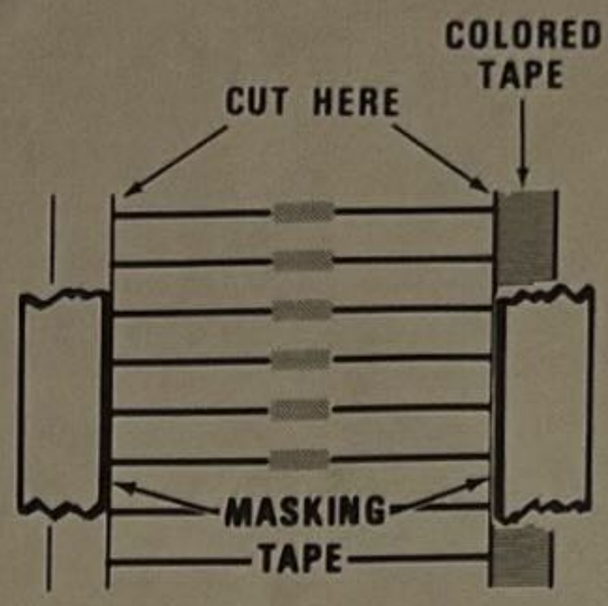
KEYBOARD ASSEMBLY
(Shown from the component side)

TAPED COMPONENT CHART

Read and Follow These Instructions Before You Install the First Component

Use masking tape, as shown in the Taping Detail, to tape the component strips over the component drawings. Be sure each part on the strip is over its correct illustration; and that resistor color bands, and any part numbers, match their drawings. Cut the tape, as necessary, to align each section. Do not remove any parts from the strip until they are called for in the assembly instructions.

NOTE: Never attempt to pull the components free from the tape; gum residue from the tape could cause an intermittent solder connection. Use diagonal cutters to remove each part as it is called for in the assembly instructions. Cut the leads at the inside edge of the tape as shown.



Taping Detail